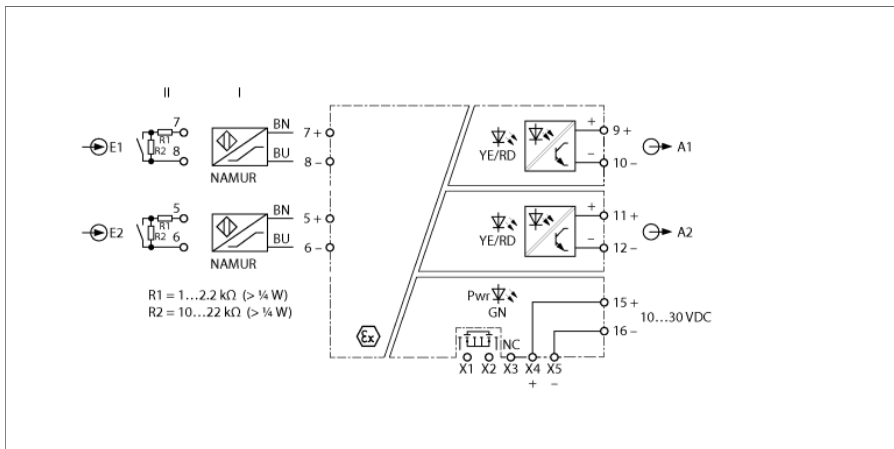


## Isolating switching amplifier 2-channel IMX12-DI01-2S-2T-PR/ 24VDC



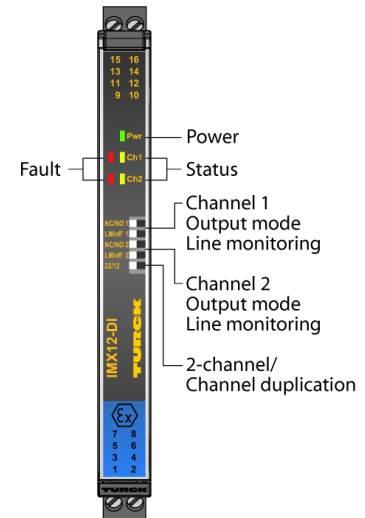
Sensors according to EN 60947-5-6 (NAMUR) or potential-free contacts can be connected to the IMX12-DI01-2S-2T-PR/24VDC isolating switching amplifier. The device is equipped with intrinsically safe input circuits and can be installed in zone 2. A DIP switch on the device allows to toggle between 2-channel or 1-channel operating mode with signal doubling. The output circuits are equipped with two potential-free transistors with high cut-off frequency (10 kHz). The device can be powered from a power bridge that also transmits a collective fault signal. The device complies with the requirements of the NE21.

The devices feature DIP switches on the front. This allows to select between the output mode, the input circuit monitoring, as well as toggle between signal duplication and 1-channel operation. When using mechanical contacts, either line monitoring must be switched off or the contact must be wired with resistors (see wiring diagram).

The Pwr LED lights green to indicate operational readiness. An error in the input circuit leads to a flashing red LED according to NE44. Thereupon the transistor of the belonging output circuit locks and the common alarm output becomes conducting.

The device can be used in safety circuits up to SIL2 (high and low demand according to IEC 61508).

The device is equipped with removable screw terminals.

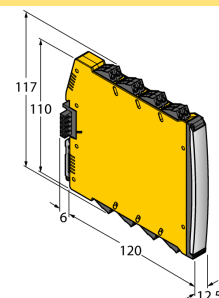


- 2 transistor outputs ( $\leq 10\text{kHz}$ )
- Switchable: 2-channel or signal doubling
- Output mode adjustable (NO/NC mode)
- Input circuits monitored for wire-break/short-circuit (ON/OFF switchable)
- Complete galvanic isolation
- Input reverse-polarity protected
- Removable screw terminals
- Power bridge (connector incl. in delivery)
- ATEX, IECEx, NEPSI, cUL, cFM, INMETRO, Kosha, TIIS, TR CU EAC, DNV, GL
- Installation in zone 2
- SIL 2

# Isolating switching amplifier 2-channel IMX12-DI01-2S-2T-PR/ 24VDC

## Dimensions

|                                            |                                                                                                                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type designation</b>                    | IMX12-DI01-2S-2T-PR/ 24VDC                                                                                                                                                                    |
| Ident-No.                                  | 7580021                                                                                                                                                                                       |
| <b>Nominal voltage</b>                     | 24 VDC                                                                                                                                                                                        |
| Operating voltage range                    | 10...30 VDC                                                                                                                                                                                   |
| Power consumption                          | ≤ 0.8 W                                                                                                                                                                                       |
| Power dissipation, typ.                    | ≤ 1.04 W                                                                                                                                                                                      |
| <b>Input</b>                               | 2-channel or 1-channel with signal doubling                                                                                                                                                   |
| NAMUR input                                |                                                                                                                                                                                               |
| NAMUR                                      | EN 60947-5-6                                                                                                                                                                                  |
| Input circuit monitoring                   | on/off switchable                                                                                                                                                                             |
| No-load voltage                            | 8.2 VDC                                                                                                                                                                                       |
| Short-circuit current                      | 8.2 mA                                                                                                                                                                                        |
| Input resistance                           | 1 kΩ                                                                                                                                                                                          |
| Cable resistance                           | ≤ 50 Ω                                                                                                                                                                                        |
| Switch-on threshold                        | 1.75 mA                                                                                                                                                                                       |
| Switch-off threshold                       | 1.55 mA                                                                                                                                                                                       |
| Wire breakage threshold                    | ≤ 0.06 mA                                                                                                                                                                                     |
| Short-circuit threshold                    | ≥ 6.4 mA                                                                                                                                                                                      |
| <b>Semiconductor output circuit(s)</b>     |                                                                                                                                                                                               |
| Output circuits (digital)                  | 2 x transistor (potential-free, short-circuit proof)                                                                                                                                          |
| Switching voltage                          | ≤ 30 VDC                                                                                                                                                                                      |
| Switching current per output               | ≤ 0.1 A                                                                                                                                                                                       |
| Switching frequency                        | ≤ 10000 Hz                                                                                                                                                                                    |
| Voltage drop                               | ≤ 1.1 V at 20 mA, ≤ 1.8 V at 50 mA, ≤ 2.7 V at 100 mA                                                                                                                                         |
| <b>Galvanic isolation</b>                  |                                                                                                                                                                                               |
| Test voltage                               | 2.5 kV                                                                                                                                                                                        |
| Input 1 to output 1                        | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 2 to output 2                        | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 1 to supply                          | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 2 to supply                          | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Output 1 to supply                         | 100 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                     |
| Output 2 to supply                         | 100 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                     |
| Output 1 to output 2                       | 100 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                     |
| <b>Important note</b>                      | For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.                                                                                  |
| Ex approval acc. to conformity certificate | TÜV 14 ATEX 147004 X                                                                                                                                                                          |
| Application area                           | II (1) G, II (1) D                                                                                                                                                                            |
| Ignition protection category               | [Ex ia Ga] IIC; [Ex ia Da] IIIC                                                                                                                                                               |
| Application area                           | II 3 (1) G                                                                                                                                                                                    |
| Ignition protection type                   | Ex nA [ia Ga] IIC T4 Gc                                                                                                                                                                       |
| <b>Important note</b>                      | If the device is used in applications to achieve functional safety according to IEC 61508, the safety manual must be used. Information in the data sheet are not valid for functional safety. |
| Use in SIL safety circuits                 | SIL 2 acc. to IEC 61508                                                                                                                                                                       |
| <b>Indication</b>                          |                                                                                                                                                                                               |
| Operational readiness                      | green                                                                                                                                                                                         |
| Switching state                            | Yellow                                                                                                                                                                                        |
| Error indication                           | red                                                                                                                                                                                           |

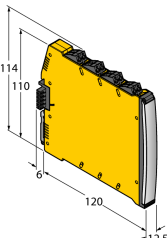


# Isolating switching amplifier 2-channel IMX12-DI01-2S-2T-PR/ 24VDC

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
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| <b>Protection class</b>           | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Flammability class acc. to UL 94  | V-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Ambient temperature               | -25...+70 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Storage temperature               | -40...+80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Relative humidity                 | ≤ 95 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Dimensions                        | 120 x 12.5 x 117 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Weight                            | 153 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Mounting instructions             | DIN rail (NS35)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Housing material                  | Polycarbonate/ABS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Electrical connection             | Removable screw clamp terminals, 2-pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Terminal cross-section            | 0.2...2.5 mm <sup>2</sup> (24 ... 13 AWG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Tightening torque                 | 0.5 Nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Tightening torque                 | 4.43 LBS-Inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Environmental conditions          | <table> <tr> <td>Operating altitude</td><td>Up to 2000 m above sea level</td></tr> <tr> <td>Pollution degree</td><td>II</td></tr> <tr> <td>Surge category</td><td>II (EN 61010-1)</td></tr> <tr> <td>Standards used</td><td></td></tr> <tr> <td>Voltage resistance and insulation</td><td></td></tr> <tr> <td></td><td>EN 50178</td></tr> <tr> <td></td><td>EN 61010-1</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td>Shock</td><td></td></tr> <tr> <td></td><td>EN 61373 class B</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-6</td></tr> <tr> <td></td><td>EN 60068-2-27</td></tr> <tr> <td>Temperature</td><td></td></tr> <tr> <td></td><td>EN 60068-2-1 Ad</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-2 Bd</td></tr> <tr> <td></td><td>EN 60068-2-1</td></tr> <tr> <td>Humidity</td><td></td></tr> <tr> <td></td><td>EN 60068-2-38</td></tr> <tr> <td>EMC</td><td></td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>NE21</td></tr> <tr> <td></td><td>EN 61326-1</td></tr> <tr> <td></td><td>EN 61326-3-1</td></tr> <tr> <td></td><td>EN 61000-4-2</td></tr> <tr> <td></td><td>EN 61000-4-3</td></tr> <tr> <td></td><td>EN 61000-4-4</td></tr> <tr> <td></td><td>EN 61000-4-5</td></tr> <tr> <td></td><td>EN 61000-4-6</td></tr> <tr> <td></td><td>EN 61000-4-11</td></tr> <tr> <td></td><td>EN 61000-4-29</td></tr> <tr> <td></td><td>EN 55011</td></tr> <tr> <td></td><td>EN 55016</td></tr> <tr> <td></td><td>EN 50121-3-2</td></tr> <tr> <td></td><td>EN 61000-6-2</td></tr> </table> | Operating altitude | Up to 2000 m above sea level | Pollution degree | II | Surge category | II (EN 61010-1) | Standards used |  | Voltage resistance and insulation |  |  | EN 50178 |  | EN 61010-1 |  | EN 50155 |  | GL VI-7-2 | Shock |  |  | EN 61373 class B |  | EN 50155 |  | GL VI-7-2 |  | EN 60068-2-6 |  | EN 60068-2-27 | Temperature |  |  | EN 60068-2-1 Ad |  | EN 50155 |  | GL VI-7-2 |  | EN 60068-2-2 Bd |  | EN 60068-2-1 | Humidity |  |  | EN 60068-2-38 | EMC |  |  | EN 50155 |  | GL VI-7-2 |  | NE21 |  | EN 61326-1 |  | EN 61326-3-1 |  | EN 61000-4-2 |  | EN 61000-4-3 |  | EN 61000-4-4 |  | EN 61000-4-5 |  | EN 61000-4-6 |  | EN 61000-4-11 |  | EN 61000-4-29 |  | EN 55011 |  | EN 55016 |  | EN 50121-3-2 |  | EN 61000-6-2 |
| Operating altitude                | Up to 2000 m above sea level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Pollution degree                  | II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Surge category                    | II (EN 61010-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Standards used                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Voltage resistance and insulation |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61010-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Shock                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61373 class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Temperature                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-1 Ad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-2 Bd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Humidity                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| EMC                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | NE21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61326-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61326-3-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 55011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 55016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50121-3-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-6-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                              |                  |    |                |                 |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |

**Isolating switching amplifier**  
**2-channel**  
**IMX12-DI01-2S-2T-PR/ 24VDC**

**Accessories**

| Type code                   | Ident-No. | Description                                                                                                                                                                                                                                                                                       | Dimension drawing                                                                   |
|-----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| WM1                         | 0912101   | The resistor module WM1 meets the requirements for line monitoring between a mechanical contact and a TURCK signal processor. The input circuit of the signal processor is designed for sensors acc. to EN60947-5-6 (NAMUR) and equipped with a wire-break and short-circuit monitoring function. |  |
| IMX12-PS02-UI-UIR-PR /24VDC | 7580610   | Power supply module power bridge; Collective fault signal via relay; Single and redundant power supply via terminals; Removable screw terminals                                                                                                                                                   |  |
| IMX12-SC-2X-4BK             | 7580940   | Screw terminals for IM(X)12 modules; included in delivery: 4 pcs. of 2-pin black terminals                                                                                                                                                                                                        |                                                                                     |
| IMX12-SC-2X-4BU             | 7580941   | Screw terminals for IM(X) 12 modules; included in delivery: 4 pcs. of 2-pin blue terminals                                                                                                                                                                                                        |                                                                                     |
| IMX12-CC-2X-4BK             | 7580942   | Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. black terminals, 2-pin                                                                                                                                                                                                         |                                                                                     |
| IMX12-CC-2X-4BU             | 7580943   | Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. blue terminals, 2-pin                                                                                                                                                                                                          |                                                                                     |