

Basic features

Additional features
Approval/Conformity

Function indicator: LED red/green
CE
TÜV NRTL
TÜV
RoHS
WEEE

Component
Guard locking, principle

Type 2
yes, magnetic force (power to lock)

Operating principle
Principle of operation

mechanical - force, contact
Safety Switches

Scope of delivery

1 pc.

Series

BID F10...

Use

Locking mechanism with interlock which prevents execution of hazardous machine functions under specified conditions and holds a separating protection device in the closed position while hazardous machine functions are being performed.

Version

Guard locking device

Electrical connection

Connection
Short-circuit protection

M12x1-Male, 8-pin
0.2 fast-action

Safety Guard Locking Devices
BID F101-2M1E3-M02AZ0-S115
Order Code: BID0003

BALLUFF

Electrical data

Contacts solenoid (number, type)	2 positively driven contacts
Duty cycle solenoid	100 %
Operating voltage solenoid U_s	24 V (+10%/-15%) DC
Operating voltage, LED	24 V (+10%/-15%)
Power consumption solenoid	10 W
Protection class	III
Rated continuous current	4.0 A
Rated insulation voltage U_i	24 V DC
Rated operating current I_e	0.5 A
Rated operating current I_e AC	1 A
Rated operating voltage U_e AC	24 V
Rated operating voltage U_e DC	24 V
Rated surge voltage U_{imp}	500 V
Switching current	5 mA
Switching principle	Snap switch
Switching voltage	min. 5V DC (at 10 mA)
Utilization category	AC-15 DC -13

Environmental conditions

Ambient temperature	0...40 °C
IP rating	IP65

Functional safety

Axillary release	no
B10d (EN ISO 13849-1)	5 mil. switching operations
Coding level (EN ISO 14119)	low
Escape release	no
No of contacts	2x positive opening

Remarks

Order actuator separately.

The safety switch may not be used as a stop!

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values do not extend the limitation period for claims arising from defects or influence them in any other way.

We call you attention to the fact that the product listed here alone are not considered safety components according to Machine Directive 2006/42/EC Article 2c. It is however possible to construct structures per EN 13849-1 having a high performance level using the products with two channels.

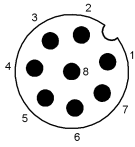
Material

Housing material	Aluminum
Material contacts	Silver

Mechanical data

Actuator overtravel max.	3 mm
Actuator retention force	10 N
Adjustable actuator head	in 90° increments
Approach direction	laterally + above
Approach speed	20 m/min
Dimension	40 x 197.7 x 44 mm
Holding force F1 max.	3250 N
Holding force FZH	2500 N
Insertion depth min.	24 mm
Insertion tolerances	± 3 mm
Installation	any
Life expectancy mechanical	1 mil. switching operations
Mounting holes, number	2
Mounting part	Screw M5
Switch actuation force	5 N
Tightening torque	2.5 Nm
Weight	0.73 kg
Weight	0.73 kg

Connector Drawings



PIN 1: 11 (solenoid monitoring)
PIN 2: 31 (door monitor)
PIN 3: 22 (solenoid monitoring)
PIN 4: 12 (magnet monitoring)
PIN 5: 34 (door monitoring)
PIN 6: 21 (solenoid monitoring)
PIN 7: A2
PIN 8: A1

Wiring Diagrams

