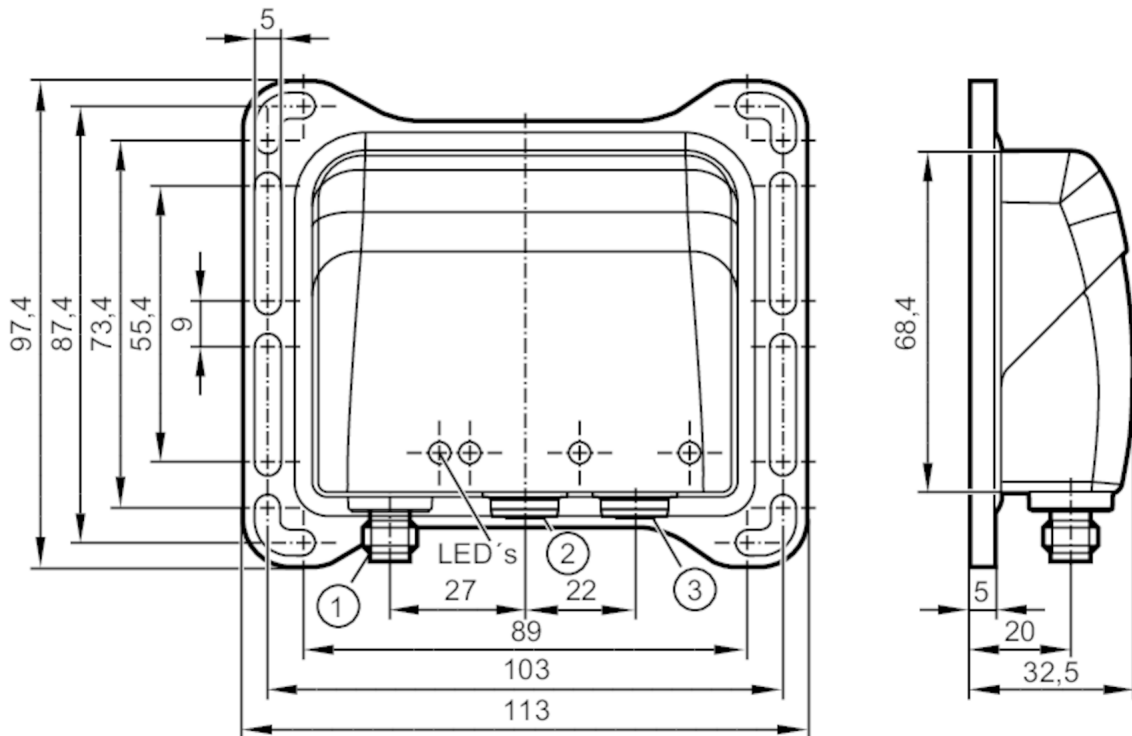


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Wireless IoT gateway

io-key Cellular IoT Gateway IOL 2P WW



- 1 voltage supply
- 2 IO-Link port 1
- 3 IO-Link port 2



Application

Application	Sensor data collected and sent to the ifm cloud via radio transmission		
Radio approval for	USA; Canada; EU/RED; Australia; United Arab Emirates		
Note on radio approval	The list of countries applying the European Radio Equipment Directive 2014/53/EU (RED) can be found under "Downloads".		

Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 2000
Power consumption	[W]	8.6
Protection class		III
Reverse polarity protection		yes
Current rating per port	[A]	0.5; (IO-Link port)

Bluetooth

Antenna gain	[dB]	3
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Inputs / outputs

Number of inputs and outputs	Number of digital inputs: 2; Number of digital outputs: 2
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Wireless IoT gateway

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Inputs		
Number of digital inputs		2; (IO-Link)
Switching level high	[V]	11...30
Switching level low	[V]	0...5
Outputs		
Number of digital outputs		2; (SIO mode)
Max. current load per output	[mA]	200
Software / programming		
Parameter setting options		dashboard display with alarm functions via email or text message
Interfaces		
Communication interface		IO-Link; Mobile networks; Bluetooth
Bluetooth		
Transmission standard		BLE 5.0
Frequency band		2402...2480 MHz
Transmission power	[mW]	2.51
Usage type		service interface
Note on interfaces		ceramic antenna integrated
IO-Link		
Number of ports		2
Unterstützte IO-Link Revision		1.0; 1.1
Transmission type		COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)
Mobile networks		
Transmission standard		NarrowBand-IoT; 2G quadband GSM; LTE Cat-M1
Frequency band		B1(2100); B2(1900); B3(1800); B4(AWS1700); B5(850); B8(900); B12(700); B18(800); B19(800); B20(800); B26(850); B28(700)
Operating conditions		
Ambient temperature	[°C]	-20...50
Max. height above sea level	[m]	3000
Protection		IP 65
Tests / approvals		
EMC	EN 301489-1	
	EN 301489-17	
	EN 301489-52	
Vibration resistance	EN 60068-2-6	
Shock resistance	EN 60068-2-27	
Radio approval		EN 301511 EN 301908-1 EN 301908-13 EN 300328
Mechanical data		
Weight	[g]	152.6
Material		housing: ABS

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Displays / operating elements

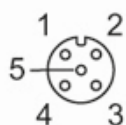
Display	voltage supply	1 x LED, yellow
	communication	1 x LED
	IO-Link port	2 x LED, green

Remarks

Remarks	SIM card onboard
Pack quantity	1 pcs.

Electrical connection - IO-Link

Connector: 2 x M12



IO-Link Port 1

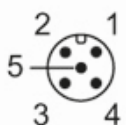
1	+24 V DC(US)
2	not used
3	GND (US)
4	C/Q IO-Link
5	not used

IO-Link Port 2

1	+24 V DC(US)
2	not used
3	GND (US)
4	C/Q IO-Link
5	not used

Electrical connection - voltage supply

Connector: 1 x M12



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Power	
1	+24 V DC
2	Digital output 1
3	L-
4	Digital output 2
5	not used