

1) not included in scope of delivery, 2) Non-usable area, 3) Measuring length, 4) LED function indicator, 10) Null point, 11) Installation length



Basic features

Approval/Conformity	CE cULus UKCA WEEE
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Display/Operation

Function indicator	RGB LED
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Electrical connection

Connection	Connector, M12x1, 8-pin
Connection version	axial
Polarity reversal protected	to 36 V
Short-circuit protection	to GND and to 36 V DC

Electrical data

Current consumption max. at 24 V DC	70 mA
Galvanic isolation	no
Inrush current	≤ 500 mA/10 ms
Operating voltage Ub	10...30 VDC
Output signal adjustable	yes
Overvoltage protection	to 36 V
Polarity reversal protected	to 36 V
Residual ripple max.	0.5 Vpp
Switch-on delay max.	500 ms
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...85 °C
EN 60068-2-27, Continuous shock	150 g, 2 ms
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	20 g, 10...2000 Hz
IP rating	IP67, with connector
Storage temperature	-40...85 °C
Temperature coefficient max.	30 ppm/K

IO-Link

IO-Link Profil IDs	0x0031 BLOB FW-Update 0x4000 Identification and Diagnosis 0x000B SSP3.2
IO-Link function classes	0x8000 Device Identification 0x8002 Process Data Variables 0x8003 Device Diagnosis 0x8100 Extended Identification 0x800B Measurement high resolution
Supported IO-Link Profiles	Common Profile Smart Sensor Profile - Measuring Device

Interface

Interface	IO-Link V1.1 SSI
Output characteristic	linear rising/falling
SSI clock frequency max.	1000 kHz

Smart Automation and Monitoring System
 Inductive Rapid Positioning System
BIR 01-0300-K15SL0-000S15
 Order Code: BIR0007



Material

Cover material	Zinc Die-cast zinc, Die-cast, nickel plated
Housing material	Aluminium and PBT-GF30, Anodized
Housing material, surface protection	Anodized

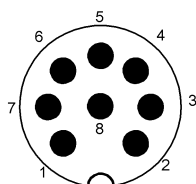
Mechanical data

Bracket distance, recommended	250 mm
Mounting part	Mounting clamps
Tightening torque max.	2 Nm

Range/Distance

Measuring length	300 mm
Nominal length	300 mm
Resolution, position	1 µm
Sampling rate min.	10 kHz
Traverse speed max.	10 m/s

Connector Drawings



Wiring Diagrams

PIN	SIGNAL
1	CLK+
2	DATA+
3	CLK-
4	C/Q
5	DATA-
6	GND
7	Vin
8	-