



1) Sensing surface, 2) Notch, 3) LED function indicator, 4) Button



Basic features

Application	Positioning
Approval/Conformity	CE cULus LISTED IO-Link WEEE EAC
Basic standard	IEC 60947-5-2 IEC 60947-5-7
Principle of operation	Magnetic field positioning system
Scope of delivery	Short guide

Display/Operation

Error diagnostic indicator	Error - LED red
Function indicator	LED yellow
Power indicator	Run - LED green

Electrical connection

Bending radius min., fixed cable	3 x D
Bending radius min., flexible cable	10 x D
Cable	PUR, 2 m
Cable diameter D	2.4 mm
Conductor cross-section	0.07 mm ²
Number of conductors	4
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current load capacity in SIO-mode	≤ 100 mA
Load resistance RL max. (Analog I)	500 ohms
No-load current I₀ max. at U_e	25 mA
Operating voltage U_b	15...30 VDC
Output current max. (Analog V)	5 mA
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	100 ms

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	3
EN 60068-2-27, Shock	30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 2 mm, 3x30 min
ESD	2B (4 kV)
Emission	EN 55022, Class B
IP rating	IP67

Functional safety

MTTF (40 °C)	201 a
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Magnetic Sensors
BMP 01-EL1PP21A-0192-00-P02
Order Code: BMP000C



IO-Link

IO-Link Profil IDs	0x000B SSP3.2 0x4000 Identification and Diagnosis
IO-Link function classes	0x8001 Binary Data Channel 0x8004 Teach Commands
Supported IO-Link Profiles	Common Profile Smart Sensor Profile - Measuring Device

Interface

Analog output	Analog, voltage/Analog, current selectable 0...10 V/4...20 mA
Interface	IO-Link 1.1
SIO mode	yes

Material

Housing material	PA 12 Aluminum
Material jacket	PUR

Mechanical data

Dimension	17.5 x 9.6 x 202 mm
Tightening torque max.	0.1 Nm

Range/Distance

Measuring range	192 mm
Non-linearity typ.	±250 µm
Repeat accuracy	± 100 µm
Resolution	≤ 1 µm (IO-Link), 12 bits (analog)
Sampling rate max.	1 kHz
Temperature drift max. from end value	±0.3 %

Remarks

Please refer to manual.

For more information about MTTF and B10d see MTTF / B10d Certificate

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 also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams

