

1) Teach-In button, 2) Sensing surface, 3) Output 1 active, 4) Output 2 active, 5) LED Power, 6) Null point



### Basic features

Application	Pneumatic cylinder with C-slot. For dimensions, see sketch in product view.
Approval/Conformity	CE cULus WEEE UKCA
Basic standard	IEC 60947-5-2
Operating mode	IO-Link Mode SIO Mode
Principle of operation	Magnetic field sensor
Scope of delivery	Cable clip for C-slot Offset screwdriver DIN 911 size 0.9
Teach function	8 switching points

### Electrical data

Load capacitance max. at Ue	0.02 µF
No-load current I <sub>o</sub> max., undamped	10 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	100 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Residual current I <sub>r</sub> max.	10 µA
Ripple max. (% of U <sub>e</sub> )	15 %
Switching frequency	15 Hz
Turn-off delay t <sub>off</sub> max.	25 ms
Turn-on delay t <sub>on</sub> max.	25 ms
Utilization category	DC -13
Voltage drop static max.	1.5 V

### Display/Operation

Function indicator	yes
Power indicator	yes

### Environmental conditions

Ambient temperature	-25...80 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
ESD	2A (4 kV)/3A (8 kV)
Emission	Group 1, Class B
IP rating	IP67

### Electrical connection

Cable diameter D	2.40 mm
Cable jacket, material	PUR
Cable length L	0.30 m
Connection	M8x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Functional safety

MTTF (40 °C)	320 a
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**IO-Link**

IO-Link Profil IDs	0x0001 SSP0
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**Interface**

Baud rate	COM2 (38.4 kBaud)
Interface	IO-Link 1.1
Interface setting option	Normally open/Normally closed Teach-In of switchpoints Hyst. (overtravel) /10 levels Factory setting Reset
Process data IN	Teaching active/inactive Inside/outside the measuring range 8 switchpoints active/inactive
Process data OUT	None
Process data cycle min.	2.6 ms
SIO mode	yes
Switching output	PNP normally open (NO)

**Material**

Clamping screw material	Stainless steel
Housing material	PA 12
Material jacket	PUR
Material sensing surface	PA 12

**Mechanical data**

Dimension	20 x 2.9 x 3.6 mm
Mounting part	can be installed in C-slot from above
Tightening torque clamping screw	0.07 Nm

**Range/Distance**

Repeatability	0.2 mm
Teach range	-30...30 mm
Teach range max.	30 mm
Teach range min.	-30 mm

**Remarks**

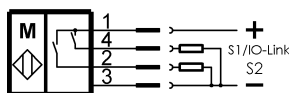
Please refer to manual at balluff.com.  
 Effective operating current I<sub>e</sub> for thermally coupled installation of operating part on metal.  
 Allen key 0.9 mm: max. tightening torque 0.07 Nm  
 The sensor is functional again after the overload has been eliminated.  
 Teach-In must be performed only when installed.  
 Do not press key using a pointed tool.  
 EMC: Surge resistance  
 External protection circuit is required. Document 825345, Section 2.  
 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.

**Connector Drawings**



**Wiring Diagrams (Schematic)**



Help Views

