

1) Sensing surface, 2) see remarks, 3) see remarks, 4) see remarks



### Basic features

<b>Application</b>	Pneumatic cylinder with T-slot. For dimensions, see sketch in product view.
<b>Approval/Conformity</b>	CE cULus WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Magnetic field sensor
<b>Scope of delivery</b>	Cable clip for T-slot
<b>Trademark</b>	Global

### Display/Operation

<b>Function indicator</b>	yes
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### Electrical connection

<b>Cable</b>	PUR, 0.30 m
<b>Cable diameter D</b>	2.50 mm
<b>Connection</b>	M8x1-Male, 3-pin
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	no
<b>Short-circuit protection</b>	yes

### Electrical data

<b>Assured switching field strength <math>H_a</math></b>	2 kA/m
<b>Hysteresis <math>H</math> max. (% of <math>H_n</math>)</b>	45 %
<b>Load capacitance max. at <math>U_e</math></b>	1 $\mu$ F
<b>No-load current <math>I_o</math> max., undamped</b>	6 mA
<b>Operating voltage <math>U_b</math></b>	10...30 VDC
<b>Output resistance <math>R_a</math></b>	Open drain
<b>Rated insulation voltage <math>U_i</math></b>	75 V DC
<b>Rated operating current <math>I_e</math></b>	200 mA
<b>Rated operating voltage <math>U_e</math> DC</b>	24 V
<b>Rated short circuit current</b>	100 A
<b>Rated switch field strength <math>H_n</math></b>	1.2 kA/m
<b>Residual current <math>I_r</math> max.</b>	80 $\mu$ A
<b>Ripple max. (% of <math>U_e</math>)</b>	15 %
<b>Switching frequency</b>	3000 Hz
<b>Turn-off delay <math>t_{off}</math> max.</b>	0.1 ms
<b>Turn-on delay <math>t_{on}</math> max.</b>	0.1 ms
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	2.5 V

### Environmental conditions

<b>Ambient temperature</b>	-25...85 °C
<b>Contamination scale</b>	3
<b>EN 60068-2-27, Shock</b>	Half-sinus, 30 gn, 11 ms
<b>EN 60068-2-6, Vibration</b>	55 Hz, amplitude 1 mm, 3x30 min
<b>ESD</b>	3A(8KV)
<b>Emission</b>	Group 1, Class B
<b>Protection degree</b>	IP67

**Functional safety**

MTTF (40 °C) 355 a

**Material**

Housing material PA 12  
 Material jacket PUR  
 Material sensing surface PU

**Mechanical data**

Dimension 23.5 x 5 x 5.5 mm  
 Mounting can be installed in T-slot from above  
 Tightening torque 0.4 Nm

**Output/Interface**

Switching output PNP normally closed (NC)

**Range/Distance**

Temp. drift max. (% of Hn) 0.3 %

**Remarks**

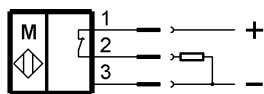
- 2) Application area: pneumatic cylinder with t-slot. For dimensions, see sketch in product view.
  - 4) Allen wrench 2.0 mm: max. tightening torque 0.4 Nm. Screw driver 4x0.8 mm: max. tightening torque 1 Nm
- Effective operating current  $I_e$  with thermally coupled installation in metal.
- 3) Damping magnet axially magnetized
- 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**



## Help Views

