

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



Display/Operation

Function indicator **yes**

Electrical connection

Cable diameter D **2.50 mm**
 Cable length **0.3 m**
 Connection **M12x1-Male, 4-pole, A-coded**
 Connection type **Cable with connector, 0.30 m, PUR**
 Protection against device mix-ups **no**
 Short-circuit protection **yes**

Electrical data

Assured switching field strength H_a **2 kA/m**
 Hysteresis H max. (% of H_n) **45 %**
 Load capacitance max. at U_e **1 μ F**
 No-load current I_o max., undamped **3 mA**
 Operating voltage U_b **10...30 VDC**
 Output resistance R_a **Open drain**
 Polarity reversal protected **yes**
 Rated insulation voltage U_i **75 V DC**
 Rated operating current I_e **200 mA**
 Rated operating voltage U_e DC **24 V**
 Rated short circuit current **100 A**
 Rated switch field strength H_n **1.2 kA/m**
 Residual current I_r max. **80 μ A**
 Residual ripple max. (% of U_e) **15 %**
 Switching frequency **3000 Hz**
 Turn-off delay t_{off} max. **0.1 ms**
 Turn-on delay t_{on} max. **0.1 ms**
 Utilization category **DC-13**

Voltage drop static max. **2.5 V**

Environmental conditions

Ambient temperature **-25...85 °C**
 Contamination scale **3**
 IP rating **IP67**

Functional safety

MTTF (40 °C) **355 a**

General data

Approval/Conformity **CE, cULus**
 Basic standard **IEC 60947-5-2**
 Scope of delivery **Cable clip for T-slot**
 Trademark **Global**

Material

Housing material **PA 12**
 Material jacket **PUR**
 Material sensing surface **PU**

Mechanical data

Dimension **23.5 x 5 x 5.5 mm**
 Tightening torque **0.4 Nm**

Output/Interface

Switching output **PNP Normally open (NO)**

Range/Distance

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

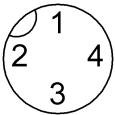
Remarks

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

For further information about the 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 view



Wiring Diagram

