



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



Basic features

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

Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	2.50 mm
Cable jacket, material	PUR
Cable length L	0.50 m
Connection	M8x1-Male, 3-pin
Polarity reversal protected	no
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
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
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
EN 60068-2-27, Shock	Half-sinus, 30 g_n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
ESD	3A(8KV)
Emission	Group 1, Class B
IP rating	IP67

Functional safety

MTTF (40 °C)	355 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	PA 12
Material jacket	PUR
Material sensing surface	PU

Mechanical data

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

Range/Distance

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

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 wrench 2.0 mm: max. tightening torque 0.4 Nm. Screw driver 4x0.8 mm: max. tightening torque 1 Nm
 UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.
 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

A circular diagram representing a 4-pin connector. The pins are arranged in a circle and labeled with numbers: 1 at the top-left, 3 at the top-right, and 4 at the top. There is a fourth pin position at the bottom, which is not explicitly labeled with a number in this diagram.

Wiring Diagrams (Schematic)

A schematic diagram showing a magnet symbol (M) inside a rectangular box. Three lines extend from the right side of the box to terminals labeled 1, 4, and 3. Terminal 1 is connected to a positive (+) terminal. Terminal 4 is connected to a load (represented by a rectangle) which is then connected to a negative (-) terminal. Terminal 3 is also connected to the negative (-) terminal.

Help Views

