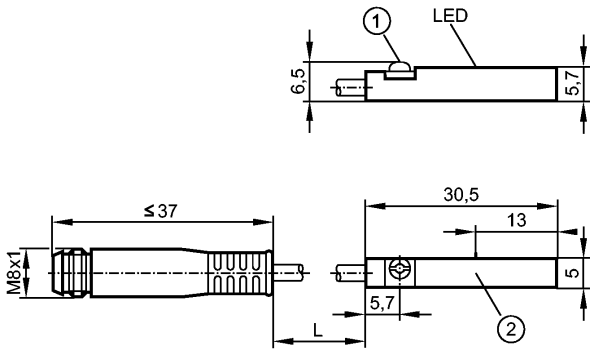
efector120

ifm electronic

Magnetic sensors, cylinder sensors

MR0101

MRT2021BAKOA/R/0.3M/ZH/AS
Cylinder sensor with reed contact
Plastic housing for T-slot cylinders
Cable with connector
flush mountable
Magnetic sensitivity 2.1 mT
Travel speed > 10 m/s



1: Fastening clamp
2: sensing face

Made in Germany

Electrical design		AC/DC PNP/NPN
Output		normally open
Operating voltage	[V]	5...60 DC / 5...50 AC; (for UL supply class 2: 5...60 DC / 5...30 AC)
Current rating	[mA]	100 *)
Short-circuit proof		no
Reverse polarity protection		yes
Overload protection		no
Voltage drop	[V]	< 5
Switching power (max.) [W]		10
Switching cycles when connected to PLC [million]		≤ 40
Hysteresis	[mm]	1
Repeatability	[mm]	± 0.2
Make time incl. bounce	[ms]	≤ 0.6
Fall time	[ms]	≤ 0.1
Switching frequency	[Hz]	1000
Ambient temperature	[°C]	-25...70
Protection		IP 67, III
EMC		EN 61000-4-2 ESD: - CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m (80...2000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 1 kV (line to line, Ri: 2Ohm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
MTTF	[Years]	11303
Housing materials		housing: PA (polyamide); Fastening clamp: stainless steel
Function display		
Switching status	LED	yellow
Connection		PUR cable / 0.3 m; with M8 connector (snap-fit)
Weight	[kg]	0.012
Remarks		*) External protective circuit for inductive load (valve, contactor, etc.) necessary. Clamping screw with combined slot/hexagon socket head AF 1.5 No LED function in case of polarity reversal in DC operation. UL - Class 2 source required
Accessories (included)		rubber placeholder, cable clip

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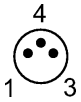
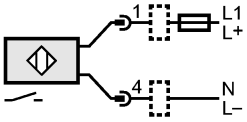
Wiring





Note: miniature fuse to IEC60127-2 sheet 1,
≤ 0.175 A (fast acting)