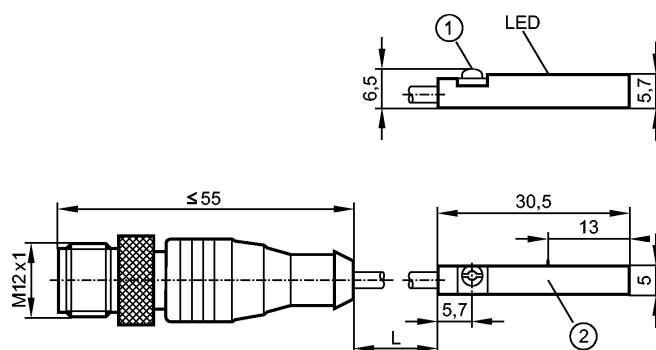


MR0121

MRT3021BBKOA/R/0.3M/ZH/US

Magnetic sensors, cylinder sensors



- 1: Fastening clamp
2: sensing face



Made in Germany

Product characteristics

Cylinder sensor with reed contact

Plastic housing for T-slot cylinders

Cable with connector

[f] flush mountable

Magnetic sensitivity 2.1 mT

Travel speed > 10 m/s

Electrical data

Electrical design	AC/DC PNP
Operating voltage [V]	5...50 AC/DC *)
Protection class	III
Reverse polarity protection	no

Outputs

Output function	normally open
Voltage drop [V]	< 1
Current rating [mA]	350 AC / 500 DC
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	1000
Switching power (max.) [W]	10

Range

Magnetic sensitivity [mT]	2.1
Travel speed [m/s]	> 10

Accuracy / deviations

Hysteresis [mm]	1
Repeatability [mm]	< 0.2

Reaction times

Fall time [ms]	0.1
Make time incl. bounce [ms]	0.6

Environment

Ambient temperature [°C]	-25...70
Protection	IP 65 / IP 67

Tests / approvals

MR0121

MRT3021BBKOA/R/0.3M/ZH/US

Magnetic sensors, cylinder sensors

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 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
-----	--

MTTF	[Years]	20385
------	---------	-------

Mechanical data

Mounting	flush mountable
Housing materials	PA (polyamide); Fastening clamp: stainless steel
Switching cycles when connected to PLC [million]	40
Weight	[kg] 0.021

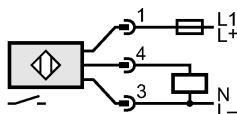
Displays / operating elements

Output status indication	LED	yellow
--------------------------	-----	--------

Electrical connection

Connection	PUR cable / 0.3 m; with M12 connector, with turnable coupling ring
------------	--

Wiring



Note: miniature fuse to IEC60127-2 sheet 1,
 ≤ 0.75 A (fast blow, DC operation)
 ≤ 0.6 A (fast blow, AC operation)

Accessories

Accessories (included)	rubber placeholder; cable clip
------------------------	--------------------------------

Remarks

Remarks	*) External protective circuit for inductive load (valve, contactor, etc.) necessary. Clamping screw with combined slot/hexagon socket head AF 1.5 UL - Class 2 source required
---------	---

Pack quantity	[piece]	1
---------------	---------	---