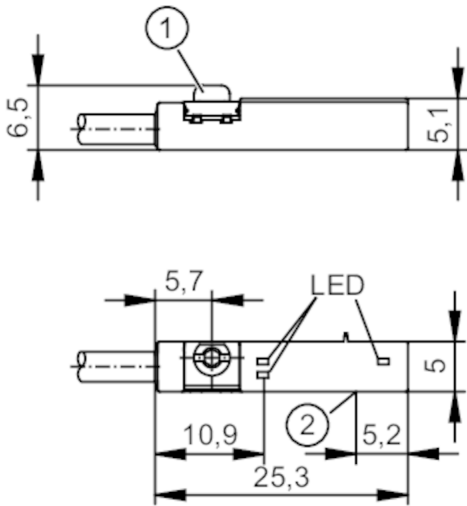


MK5249



T-slot cylinder sensor

MKT3028BBPKG/A/6,0M/ZH



- 1 fixing element
2 sensor cell



Product characteristics

Electrical design	PNP
Output function	normally open
Dimensions [mm]	25 x 5 x 6.5

Electrical data

Operating voltage [V]	10...30 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 0.05

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Magnetic sensitivity [mT]	2.3
Travel speed [m/s]	> 10

Accuracy / deviations

Hysteresis [mm]	< 1.5
Repeatability [mm]	< 0.2

MK5249



T-slot cylinder sensor

MKT3028BBPKG/A/6,0M/ZH

Operating conditions		
Ambient temperature	[°C]	-25...85
Protection		IP 65; IP 67
Tests / approvals		
EMC	EN 61000-4-2	- 4 CD / 8 AD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	10 V
	EN 55011	class B
Vibration resistance		20 g (10...3000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes
Shock resistance		30 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
MTTF	[years]	1958
UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	UL approval number	C003
Mechanical data		
Weight	[g]	73.35
Mounting		flush mountable
Type of mounting		fastening clamp with combined slot / hexagon socket, width across flats 1.5
Cylinder type		T-slot cylinders
Dimensions	[mm]	25 x 5 x 6.5
Material		housing: PA; Fastening clamp: stainless steel
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1x LED, green
	Setting aid	1x LED, yellow flashing
Accessories		
Items supplied		rubber memory stop: 1
		cable clip: 1
Remarks		
Pack quantity		1 pcs.

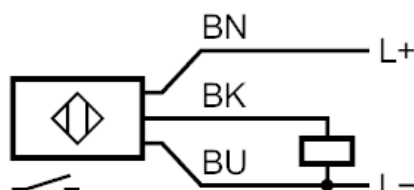
T-slot cylinder sensor

MKT3028BBPKG/A/6,0M/ZH

Electrical connection

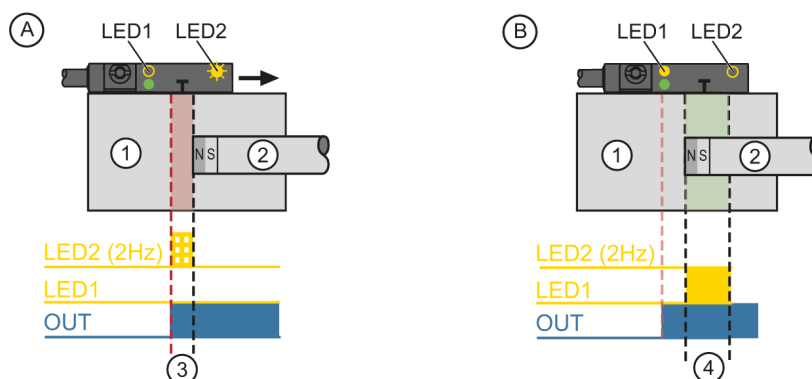
Cable: 6 m; 3 x 0.14 mm²

Connection



Diagrams and graphs

Setting aid



A: end position setting aid, step 1

B: end position setting aid, step 2

LED:

LED1: switching status indication for safe area

LED2: switching status indication for critical area

1: cylinder

2: piston

3: critical edge area, LED 2 flashes

4: safe switching area, LED 1 is on