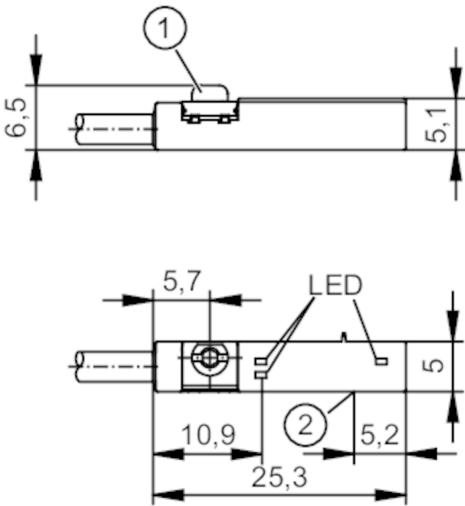


MK5248



T-slot cylinder sensor

MKT3028BBPKG/A/0,3M/ZH/US



- 1 fixing element
2 Sensorzelle



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
Max. power-on delay time [ms]	50
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
-----------------	-------

MK5248



T-slot cylinder sensor

MKT3028BBPKG/A/0,3M/ZH/US

Repeatability	[mm]	< 0.2
---------------	------	-------

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
	File number UL	E174191

Mechanical data

Weight	[g]	20.9
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.
---------------	--------

Electrical connection - plug

Cable: 0.3 m; 3 x 0.14 mm²

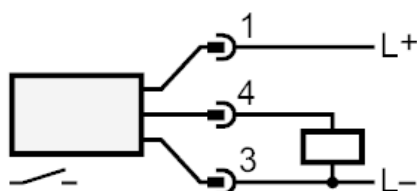
Connector: 1 x M12; coding: A



T-slot cylinder sensor

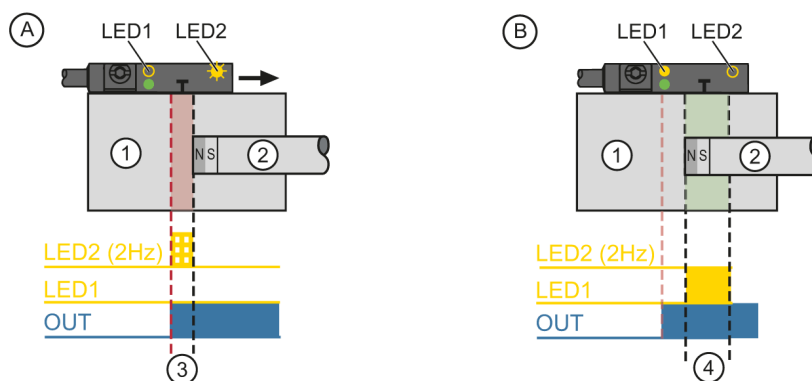
MKT3028BBPKG/A/0,3M/ZH/US

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