

1: Fastening clamp  
2: sensing face



Product characteristics

Cylinder sensor with GMR cell

Plastic housing for T-slot cylinders

Cable with connector

[f] flush mountable

Magnetic sensitivity 2.8 mT

Travel speed > 10 m/s

Electrical data

Electrical design

DC PNP

Operating voltage [V]	10...30 DC; cULus - Class 2 source required
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes

Outputs

normally open

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	10000

Monitoring range

Magnetic sensitivity [mT]	2.8
Travel speed [m/s]	> 10

Accuracy / deviations

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

Reaction times

Power-on delay time [ms]	< 30
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Environment

Ambient temperature [°C]	-25...85
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Protection

IP 65 / IP 67

Tests / approvals

EMC

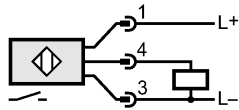
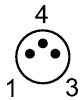
EN 61000-4-2 ESD:	- CD / 8 kV AD
EN 61000-4-3 HF radiated:	10 V/m
EN 61000-4-4 Burst:	2 kV
EN 61000-4-6 HF conducted:	10 V
EN 55011:	class B

MTTF [Years]	3694
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# MK5101 - Cylinder sensor with GMR cell - eclass: 27270104 / 27-27-01-04

UL approval number	C003
Mechanical data	
Mounting	flush mountable
Housing materials	housing: PA (polyamide); Fastening clamp: stainless steel
Weight [kg]	0.012
Displays / operating elements	
Output status indication LED	yellow
Electrical connection	
Connection	PUR cable / 0.3 m; with M8 connector (snap-fit)

## Wiring



Accessories	
Accessories (included)	rubber placeholder; cable clip
Remarks	
Remarks	Clamping screw with combined slot/hexagon socket head AF 1.5
Pack quantity [piece]	1