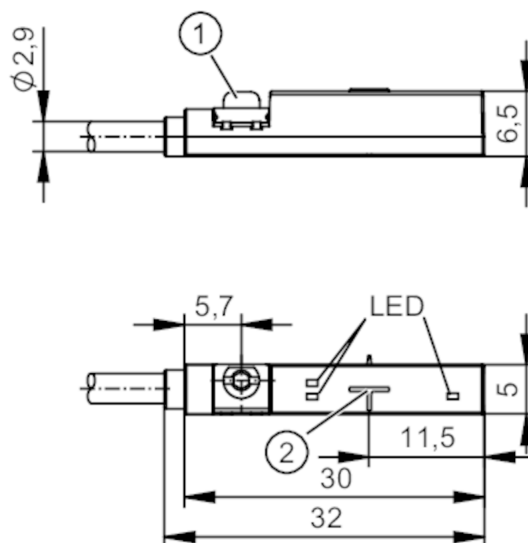




Cylinder sensor with IO-Link

MKT4028BFRKG/H/IO/ZH



- 1 Fixing element
2 sensing face



Product characteristics

Electrical design	PNP/NPN; (parameterisable)
Output function	normally open / normally closed; (parameterisable)
Communication interface	IO-Link

Application

Operating principle	Hall sensor; (3D function)
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Electrical data

Operating voltage [V]	10...30 DC; ("supply class 2" to cULus)
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes
Max. power-on delay time [ms]	300

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Outputs

Output signal	switching signal; IO-Link
Electrical design	PNP/NPN; (parameterisable)
Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	200



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Type of short-circuit protection		pulsed
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Measuring range	[mm]	50; (depending on the application)
Min. field strength	[mT]	1
Accuracy / deviations		
Hysteresis	[mm]	1.25; (parameterisable)
Repeatability	[mm]	< 0.2
Linearity error IO-Link	[%]	< 5
Resolution	[mm]	0,01; (depending on the application)
Software / programming		
Parameter setting options	switch points; counter function; diagnostic function	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1.3	
SDCI standard	IEC 61131-9 CDV	
Profiles	Function class	Designation
	0x0010	Measuring and Switching Sensor, 1 channel / SSP 4.1.1
	0x4000	Identification and Diagnosis
	0x8013	Object detection
	0x8101	Locator
	0x8102	ProductURI
SIO mode	yes	
Required master port type	A	
Supported DeviceIDs	Type of operation	DeviceID
	default	1613
Operating conditions		
Ambient temperature	[°C]	-25...85
Protection	IP 65; IP 67	
Tests / approvals		
EMC	EN 61000-4-2	- CD / 8 kV AD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	10 V
	EN 55011	class B
Impact resistance	EN 60068-2-75 Ehc	1 J
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance	EN 60068-2-27 Ea	30 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
MTTF	[years]	1088

MK5904



Cylinder sensor with IO-Link

MKT4028BFRKG/H/IO/ZH

UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	power supply	Class 2
	UL Approval no.	C020
	File number UL	E174191

Mechanical data

Weight	[g]	30.8
Type of mounting	fixing element with combined head slot / hexagon socket AF 1.5	
Cylinder type	T-slot cylinders	
Materials	housing: PA; fastening clamp: stainless steel	

Displays / operating elements

Display	switching status	2 x LED, yellow SSC1.1 SSC1.2
	operation	1x LED, green

Accessories

Items supplied	Cable clip 1x
	rubber placeholder 1x

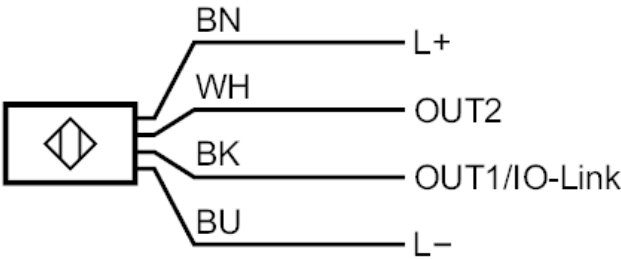
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR, Ø 2.9 mm; 4 x 0.08 mm²

Connection



BK:	OUT1 / IO-Link
WH:	OUT2
Core colours :	
BN =	brown
WH=	white
BK =	black
BU =	blue