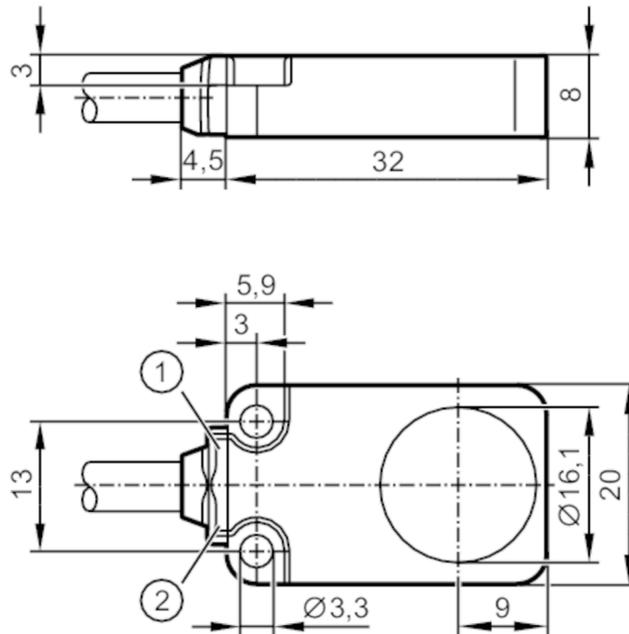




Inductive sensor with IO-Link

IQ23007BFRKG/IO/2M/PUR



- 1 LED green
- 2 LED yellow



Product characteristics

Electrical design	PNP/NPN; (parameterisable)
Output function	normally open / normally closed; (parameterisable)
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	20 x 8 x 32

Application

Special feature	Drag chain suitability
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 30
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN; (parameterisable)
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Overload protection	yes



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Detection zone		
Switch point IO-Link	[mm]	1.4...7; (parameterisable)
Measuring range IO-Link	[mm]	0.75...7.5
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[X01]	3...15
Note on hysteresis		parameterisable
Linearity error IO-Link	[%]	± 2; (of the final value of the measuring range)
Repeatability IO-Link	[%]	± 1; (of the final value of the measuring range)
Temperature coefficient	[%/K vom MEW]	± 0,6; (-25...70 °C: ± 0,3)
Temperature drift		± 10 %; (of the final value of the measuring range)
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
Profiles		Smart Sensor: Identification and diagnosis; Multi-channel, two setpoint switching sensor, type 0 Generic Profiled Sensor; Teach Channel
SIO mode		yes
Required master port type		A
Min. process cycle time	[ms]	3.2
IO-Link process data (cyclical)	function	bit length
	process value	16
	device status	4
	binary switching information	2
IO-Link functions (acyclical)		application specific tag; operating hours counter
Supported DeviceIDs	Type of operation	DeviceID
	default	1106
Note		For further information please see the IODD PDF file under "Downloads"
Operating conditions		
Ambient temperature	[°C]	-40...85
Protection		IP 65; IP 66; IP 67; IP 68
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV 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
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	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change	EN 60068-2-14 Na	TA = -40°C; TB = 85°C; t1 = 30 min; t2 = < 10 s 50 cycles

IQ2008



Inductive sensor with IO-Link

IQ23007BFRKG/IO/2M/PUR

MTTF [ANN]	787
Embedded software included	yes
UL approval	Ta -25...70 °C
	Enclosure type Type 1
	подача напруги Limited Voltage/Current
	UL Approval no. A015
	File number UL E174191

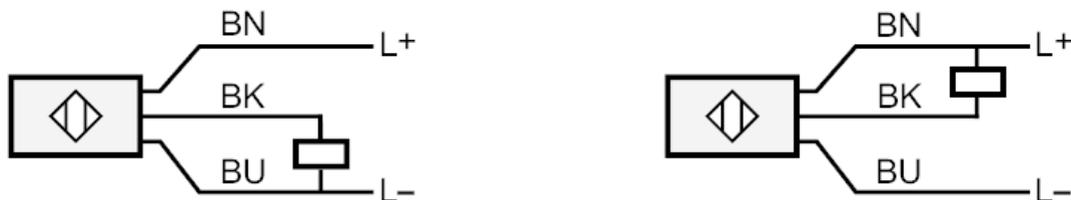
Mechanical data	
Weight [g]	79.2
Housing	rectangular
Mounting	flush mountable
Dimensions [mm]	20 x 8 x 32
Materials	diecast zinc special coating; sensing face: PBT orange; LED window: TPU; potting: PUR
Drag chain suitability	yes
Drag chain suitability	bending radius for flexible use min. 10 x cable diameter
	bending cycles > 5 Mio.

Displays / operating elements	
Display	Display operation 1 x LED, green
	switching status 1 x LED, yellow

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PUR, Ø 4.9 mm; 3 x 0.34 mm ²	

Connection



BN	brown
BU	blue
BK	black OUT / IO-Link