

Inductive sensor

IQ23008BBNKG/K1/0.3M/PUR/US



- 1 LED green
- 2 LED yellow



Product characteristics

Electrical design	NPN
Output function	normally closed
Sensing range [mm]	8
Housing	rectangular
Dimensions [mm]	20 x 8 x 32

Application

Special feature	Drag chain suitability; Increased sensing range
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally closed
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
Overload protection	yes



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Detection zone		
Sensing range	[mm]	8
Real sensing range Sr	[mm]	8 ± 10 %
Operating distance	[mm]	0...6.48
Increased sensing range		yes
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1
Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10
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
MTTF	[years]	1084
UL approval	Ta	-40...60 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A020
	File number UL	E174191
Mechanical data		
Weight	[g]	41.3
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	20 x 8 x 32
Materials		diecast zinc special coating; sensing face: LCP natural; 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.

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Electrical connection

Cable: 0.3 m, PUR, Ø 4.9 mm; 3 x 0.34 mm²

Connector: 1 x M12; coding: A



Connection

