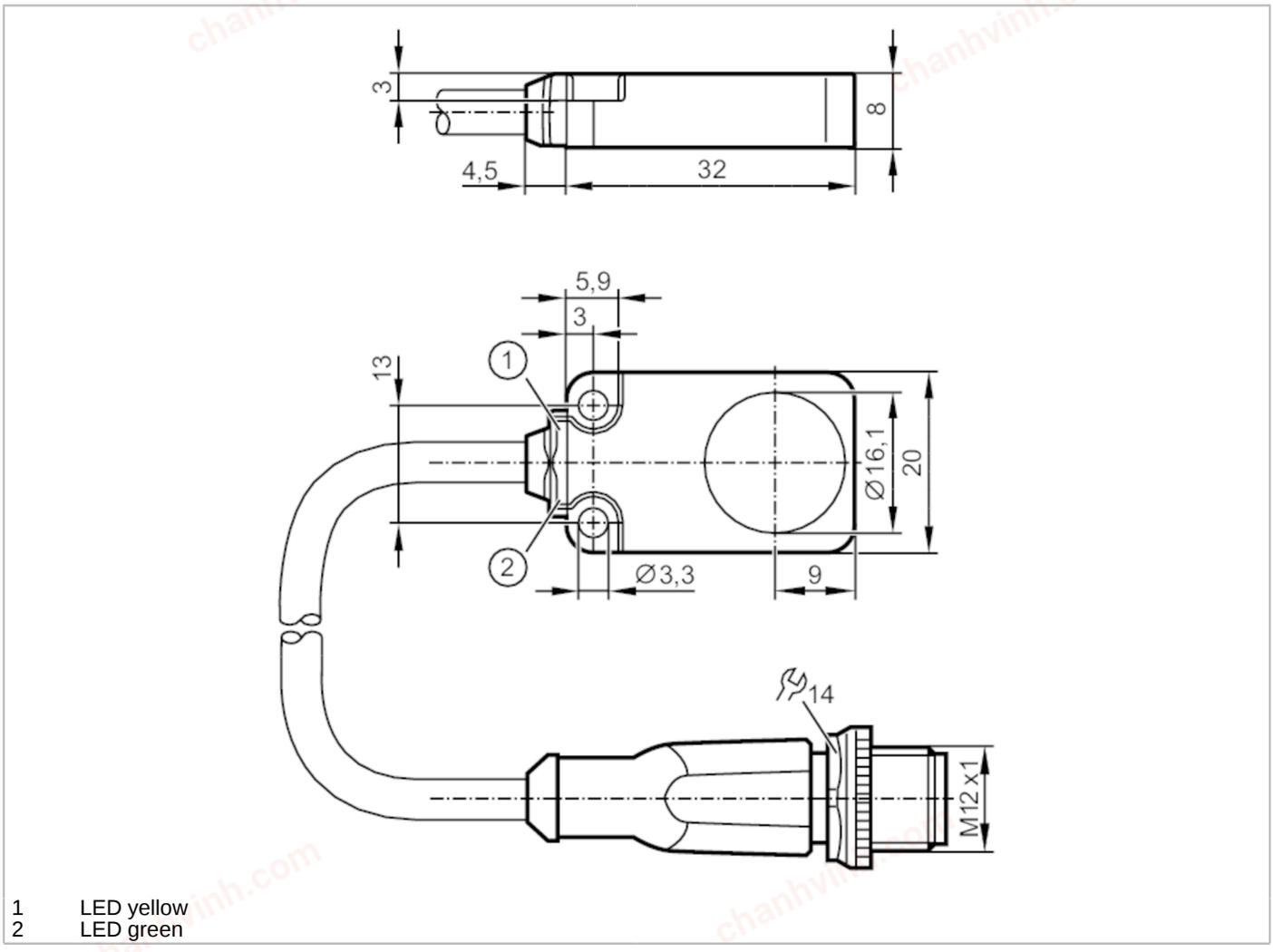
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IQ2002

Inductive sensor

IQ23008BBPKG/0.3M/PUR/US



1 LED yellow
2 LED green

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	8
Housing		rectangular
Dimensions	[mm]	20 x 8 x 32
Application		
Special feature		Increased sensing range
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open

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Max. voltage drop switching output DC [V]	2.5	
Permanent current rating of switching output DC [mA]	100	
Switching frequency DC [Hz]	400	
Short-circuit protection	yes	
Overload protection	yes	
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: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis [% of Sr]	1...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]	1688	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A016
	File number UL	E174191
Mechanical data		
Weight [g]	42.7	
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	

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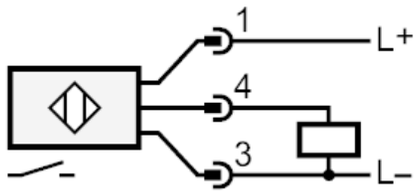
Displays / operating elements		
Display	Display operation	1 x LED, green
	switching status	1 x LED, yellow

Remarks	
Pack quantity	1 pcs.

Electrical connection

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

Connection





Electrical connection - plug

Connector: 1 x M12