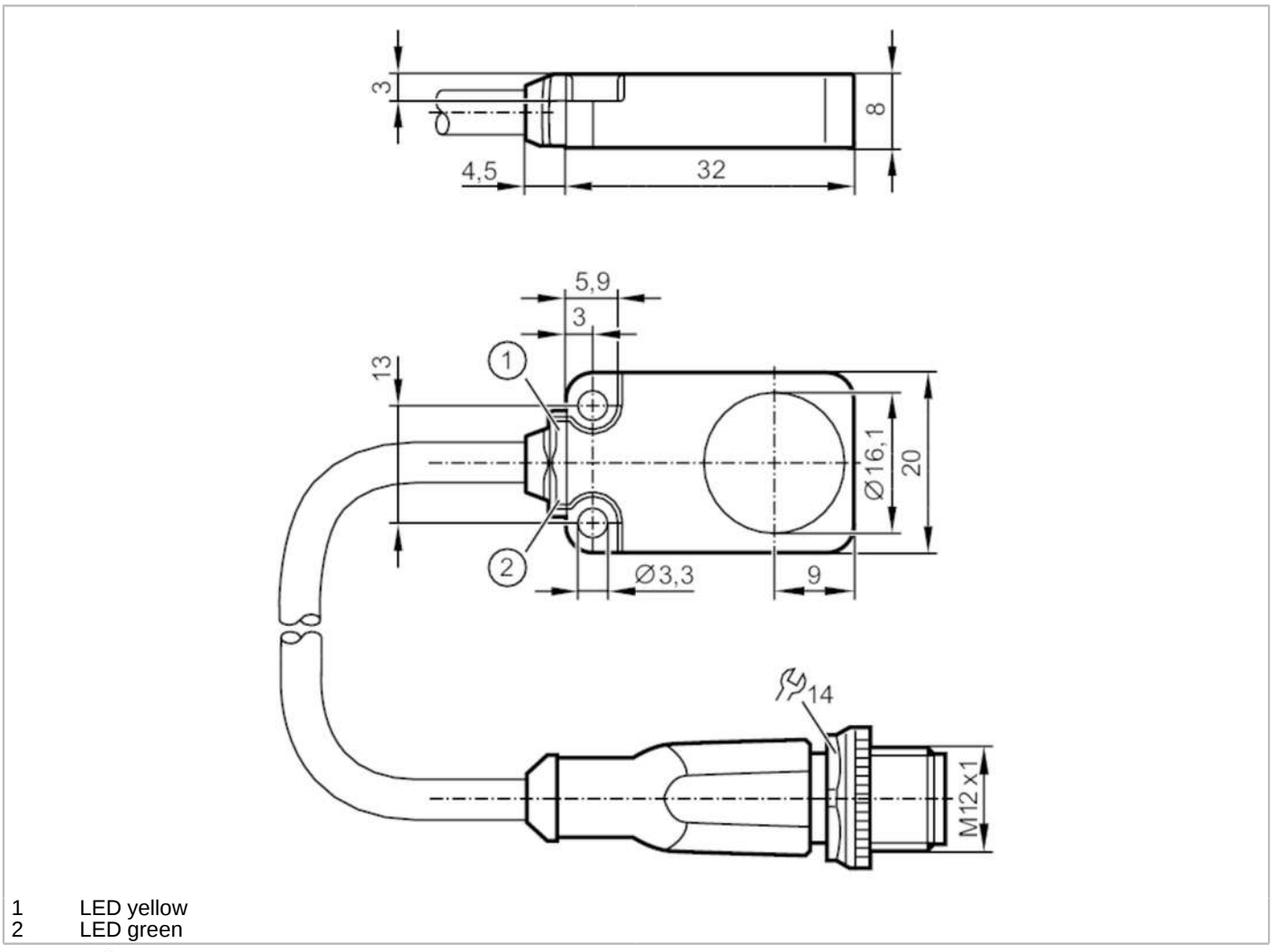
IQ2007

Inductive sensor

IQ23008BANKG/0.3M/PUR/US



1 LED yellow
2 LED green

Product characteristics		
Electrical design		NPN
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		NPN
Output function		normally open

IQ2007

Inductive sensor

IQ23008BANKG/0.3M/PUR/US

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]	1607
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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Inductive sensor

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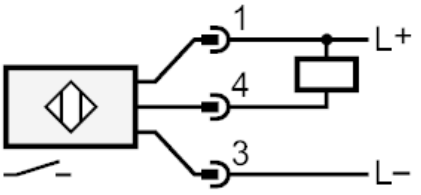
Displays / operating elements		
Display	Display operation	1 x LED, green
	switching status	1 x LED, yellow

Remarks	
Pack quantity	1 pcs.

Electrical connection

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

Connection



Connector: 1 x M12; coding: A

