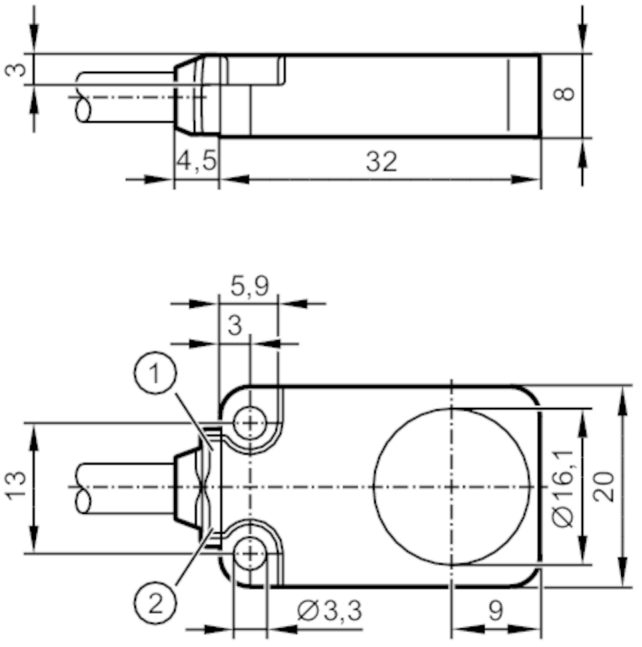
IQW200

Inductive sensor

IQ23008BBPKG/K1/SC/2M/PUR



1 LED green
2 LED yellow

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	8
Housing		rectangular
Dimensions	[mm]	20 x 8 x 32
Application		
System		Drag chain suitability; Increased sensing range; Magnetic-field immune; weld coated
Application		Sensors for welding applications
Magnetic-field immune		yes
Max. electromagnetic field immunity	[mT]	300
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes

IQW200

Inductive sensor

IQ23008BBPKG/K1/SC/2M/PUR

Outputs		
Electrical design		PNP
Output function		normally open
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
Monitoring range		
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 / aluminum: 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 per frequency; 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 changes		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
		voltage supply: Limited Voltage/Current
		UL approval number: A021
		File number UL: E174191

IQW200

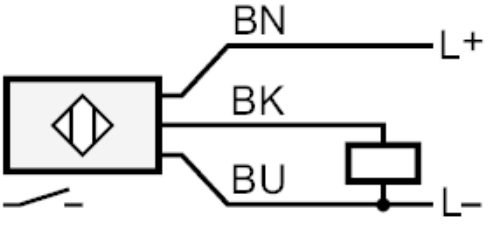
Inductive sensor

IQ23008BBPKG/K1/SC/2M/PUR

Mechanical data			
Weight	[K40]	78.9	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	20 x 8 x 32	
Material		diecast zinc weld coated; sensing face: LCP black; LED window: TPU (urethane); potting: PUR	
Drag chain suitability		yes	
Drag chain suitability		Bending radius for flexible applications	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 mm²

Connection



	Core colors
BK	black
BN	brown
BU	blue