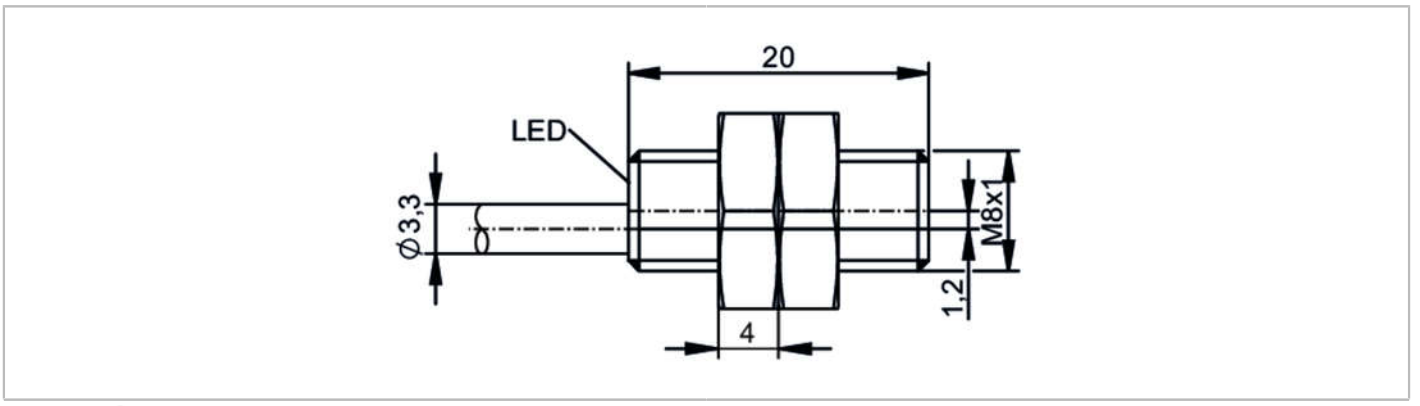
IE5460

Inductive sensor

IEB31,5-APKG/2M



Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	1.5
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 20
Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	10; (24 V)
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally closed
Max. voltage drop switching output DC	[V]	1.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	4000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	1.5
Real sensing range Sr	[mm]	1.5 ± 10 %
Operating distance	[mm]	0...1.2
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.75 / brass: 0.45 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	< 15
Switch point drift	[% of Sr]	-10...10

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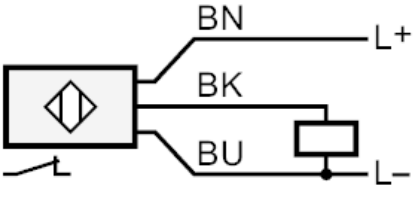
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
UL approval		Ta	< 40 °C
		Enclosure type	Type 1
		power supply	Class 2
		File number UL	E174191
Mechanical data			
Weight	[g]	50.8	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 20	
Thread designation		M8 x 1	
Materials		housing: brass nickel-plated; sensing face: LCP	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



	Core colours
BN	brown
BK	black
BU	blue