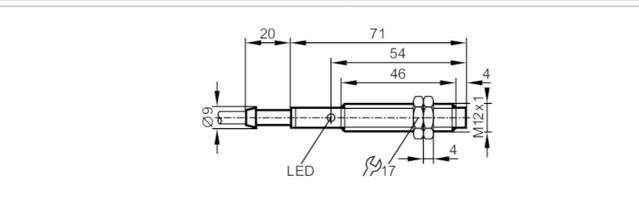
IF0160

Inductive sensor

IFA2004-BBOW/SL



Article no longer available - archive entry



Product characteristics			
Sensing range [mm] 4 Housing Threaded type Dimensions [mm] M12 x 1 / L = 71 Electrical data Frequency AC [Hz] 4763 Operating voltage [M] 90250 AC Protection class II II Reverse polarity protection no II Output function normally closed Max. voltage drop switching output AC [M] 8.5 Minimum load current [mA] 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 3 (250 V AC) / 1.5 (120 V AC) Short-time current rating of switching output AC [mA] 900; (20 ms / 0,5 Hz) Short-circuit protection no 0 Overload protection no 0 Monitoring range [ma] 4 Seasing range [mm] 4 ± 10 % Operating distance [mm] 4 ± 10 % Operating distance steel: 1/ stainless steel: 0.7 / brass: 0.4 / alum	Product characteristics		
Threaded type Dimensions [mm]	Output function		normally closed
Dimensions [mm] M12 x 1 / L = 71 Electrical data Frequency AC [Hz] 4763 Operating voltage [V] 90250 AC Protection class II Reverse polarity protection no Output solution Output function normally closed Max. voltage drop switching output AC [M] 8.5 Minimum load current [mA] 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output AC [mA] 900; (20 ms / 0,5 Hz) Switching frequency AC [Hz] 25 Short-circuit protection no no Overload protection no 0 Worldown Frage [m] 4 Real sensing range [m] 4 ± 10 % Operating distance [m] 4 ± 10 % Operating distance [m] 115 Switch-point drift [% of Sr]	Sensing range	[mm]	4
Prequency AC	Housing		Threaded type
Frequency AC [Hz] 4763 Operating voltage [V] 90250 AC Protection class II Reverse polarity protection no Output Knotton Max. voltage drop switching output AC [V] Minimum load current [mA] Max. leakage current [mA] Max. leakage current [mA] Max. leakage current rating of switching output AC [mA] Short-time current rating of switching output [mA] Short-time current rating of switching output [mA] Switching frequency AC [Hz] Short-circuit protection no Overload protection no Overload protection no Monitoring range [mm] Sensing range [mm] Querating distance [mm] Querating distance [mm] Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] Operating conditions	Dimensions	[mm]	M12 x 1 / L = 71
Operating voltage [V] 90250 AC Protection class II Reverse polarity protection no Output S Output function normally closed Max. voltage drop switching output AC [V] Minimum load current [mA] Max. leakage current [mA] Permanent current rating of switching output AC [mA] Short-time current rating of switching output AC [mA] Short-circuit protection no Overload protection no Overload protection no Monitoring range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -110	Electrical data		
Protection class II Reverse polarity protection no Output function normally closed Max. voltage drop switching output AC [V] 8.5 Minimum load current [mA] 8 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output and and switching output and and switching frequency AC [Hz] 25 Short-circuit protection no 0 Overload protection no 0 Overload protection no 0 Monitoring range [mm] 4 1 Sensing range [mm] 4 ± 10 % 0 Operating distance [mm] 3 ± 10 % 0 Accuracy / deviations 3 3 ± 10 % 0 0 Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 1 115 1 1 1 1 1	Frequency AC	[Hz]	4763
Reverse polarity protection	Operating voltage	[V]	90250 AC
Output S Output function normally closed Max. voltage drop switching output AC [V] 8.5 Minimum load current [mA] 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output [mA] 900; (20 ms / 0.5 Hz) Switching frequency AC [Hz] 25 Short-circuit protection no Overload protection no Monitoring range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 3.25 Accuracy / deviations steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] 115 Operating conditions	Protection class		II
Output function normally closed Max. voltage drop switching output AC [V] 8.5 Minimum load current [mA] 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output AC [mA] 900; (20 ms / 0,5 Hz) Switching frequency AC [Hz] 25 Short-circuit protection no Overload protection no Wonitoring range [mm] 4 Real sensing range [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010	Reverse polarity protection		no
Max. voltage drop switching output AC [M] 8.5 Minimum load current [mA] 8 Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output AC [mA] 900; (20 ms / 0,5 Hz) Switching frequency AC [Hz] 25 Short-circuit protection no Overload protection no Wonitoring range [mm] 4 Sensing range [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010	Outputs		
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Max. leakage current [mA] 3 (250 V AC) / 1.5 (120 V AC) Permanent current rating of switching output AC [mA] 200; (250 (50 °C)) Short-time current rating of switching output [mA] 900; (20 ms / 0,5 Hz) Switching frequency AC [Hz] 25 Short-circuit protection no Overload protection no Wonitoring range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010		[V]	8.5
Permanent current rating of switching output AC Short-time current rating of switching output Switching output Switching frequency AC Short-circuit protection Overload protection Overload protection Monitoring range Sensing range Sensing range Sensing range Sr Operating distance Immi Accuracy / deviations Correction factor Hysteresis [% of Sr] Switch-point drift [% of Sr] Page 1	Minimum load current	[mA]	8
switching output AC Short-time current rating of switching output Switching frequency AC [Hz] Short-circuit protection Overload protection Overload protection The sensing range Sensing range Sensing range Real sensing range Sr [mm] Operating distance [mm] Accuracy / deviations Correction factor Hysteresis [% of Sr] Switch-point drift [% of Sr] Operating conditions Sensing range (% of Sr) Switch-point drift [% of Sr] Sensing range (% of Sr) Switch-point drift [% of Sr] Sensing range (% of Sr) Sensing range (% of Sr) Switch-point drift [% of Sr] Switch-point drift [% of Sr]	Max. leakage current	[mA]	3 (250 V AC) / 1.5 (120 V AC)
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Short-circuit protection no Overload protection no Monitoring range Sensing range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions		[mA]	900; (20 ms / 0,5 Hz)
Overload protection no Monitoring range Sensing range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Switching frequency AC	[Hz]	25
Monitoring range Sensing range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Short-circuit protection		no
Sensing range [mm] 4 Real sensing range Sr [mm] 4 ± 10 % Operating distance [mm] 03.25 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Overload protection		no
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Operating distance [mm] 03.25 Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Sensing range	[mm]	4
Accuracy / deviations Correction factor steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Real sensing range Sr	[mm]	4 ± 10 %
Correction factor Steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 Hysteresis [% of Sr]	Operating distance	[mm]	03.25
Hysteresis [% of Sr] 115 Switch-point drift [% of Sr] -1010 Operating conditions	Accuracy / deviations		
Switch-point drift [% of Sr] -1010 Operating conditions	Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Operating conditions	Hysteresis	[% of Sr]	115
	Switch-point drift	[% of Sr]	-1010
	Operating conditions		
Ambient temperature [°C] -2580	Ambient temperature	[°C]	-2580

IF0160

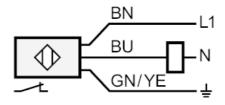
Inductive sensor

IFA2004-BBOW/SL

Connection



Protection		IP 67			
Mechanical data					
Housing		Threaded type			
Mounting		non-flush mountable			
Dimensions [mm		M12 x 1 / L = 71			
Thread designation		M12 x 1			
Material		brass nickel-plated; PBT			
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 0.5 mm ²					



Core colors :

BN = brown BU = blue

GN/YE = green/yellow