

IV5002



Inductive sensor

IVE3020BBPKG

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Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 118
Electrical data		
Operating voltage	[V]	10...60 DC
Current consumption	[mA]	20; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	3

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Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	150
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67

Tests / approvals		
EMC	EN 60947-5-2	

Mechanical data		
Weight	[g]	255.6
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 40 x 118
Material		PBT

Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks		
Remarks		5 positions of the active zone possible cable gland (E11270) to be ordered separately
Pack quantity		1 pcs.

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

