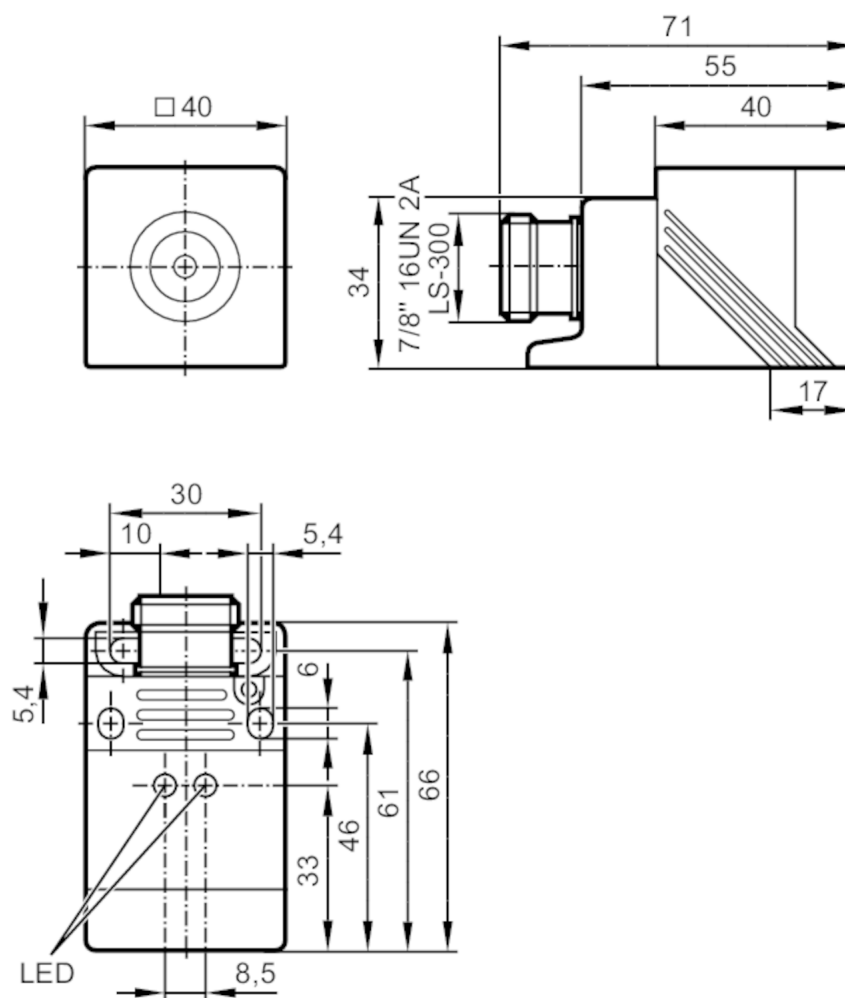


IM0056



Inductive sensor

IMC2020BARKA/LS-300BL RT



Product characteristics

Output function		normally open
Sensing range	[mm]	20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66

Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...140 AC / 10...140 DC
Protection class		I
Reverse polarity protection		yes



Inductive sensor

IMC2020BARKA/LS-300BL RT

Outputs		
Output function		normally open
Max. voltage drop switching output DC [V]		5.5
Max. voltage drop switching output AC [V]		5.5
Minimum load current [mA]		5.5
Max. leakage current [mA]		1.7 (140 V AC/DC)
Permanent current rating of switching output AC [mA]		450
Permanent current rating of switching output DC [mA]		450
Short-time current rating of switching output [mA]		2200; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]		25
Switching frequency DC [Hz]		100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range [mm]		20
Real sensing range S_r [mm]		$20 \pm 10 \%$
Operating distance [mm]		0...16.2
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]		3...20
Switch point drift [% of S_r]		-10...10
Operating conditions		
Ambient temperature [°C]		-25...70
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF [years]		351
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Hazardous voltage
	File number UL	E174191
Mechanical data		
Weight [g]		270.5
Housing		rectangular
Mounting		flush mountable
Dimensions [mm]		40 x 40 x 66
Materials		housing: PPE; sensing face: PPE; end cap: diecast zinc; connector housing: brass white bronze coated; clamp: diecast zinc

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Displays / operating elements		
Display	switching status	1 x LED, red
	operation	1 x LED, green
	short circuit	1 x LED, green/red alternately flashing
Remarks		
Remarks	5 positions of the active zone possible	
Pack quantity	1 pcs.	
Electrical connection - plug		

Connector: 1 x 7/8"

