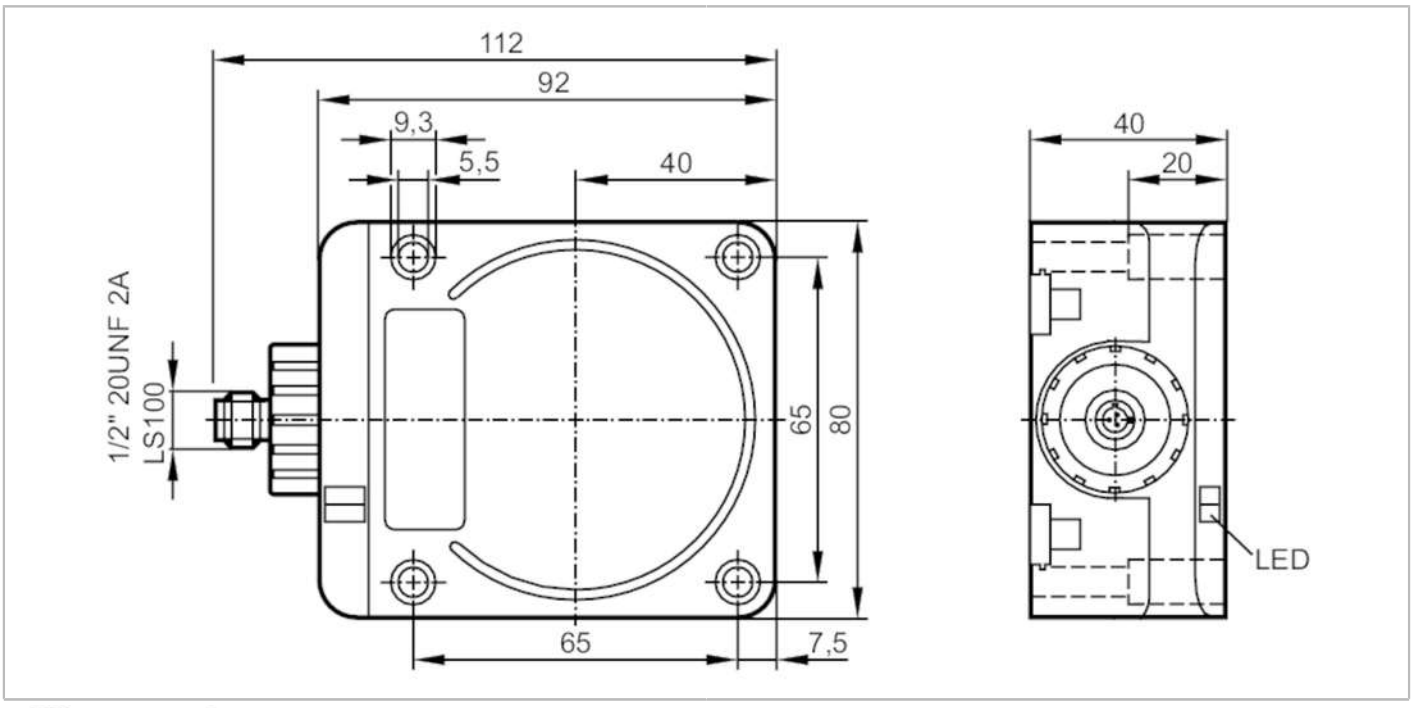
ID0039

Inductive sensor

IDC2050BARKA/LS-100AK



Product characteristics		
Output function		normally open
Sensing range	[mm]	50
Housing		rectangular
Dimensions	[mm]	92 x 80 x 40
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...140 AC / 10...140 DC
Protection class		I
Reverse polarity protection		yes
Outputs		
Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6
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]	25

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Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	50	
Operating distance	[mm]	0...40.5; (mounted flush with mild steel (ST37))	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.85 / brass: 0.48 / aluminium: 0.46 / copper: 0.38	
Hysteresis	[% of Sr]	3...20	
Switch point drift	[% of Sr]	-15...15	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	352	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		power supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]	427	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	92 x 80 x 40	
Materials		PPE; diecast zinc; brass nickel-plated	
Displays / operating elements			
Display		switching status	1 x LED, red
		operation	1 x LED, green
		short circuit	1 x LED, green/red alternately flashing
Accessories			
Items supplied		sealing plug: 1	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection - plug

Connector: 1 x 1/2"; coding: C

