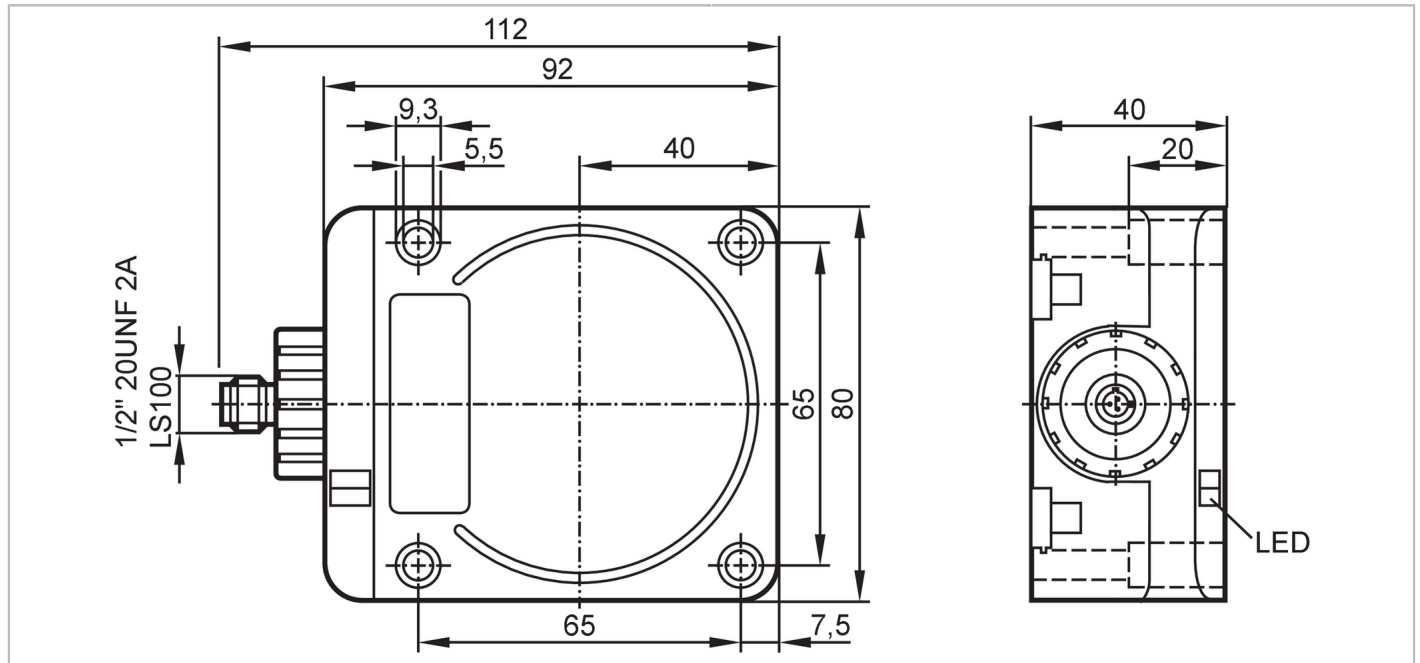




Inductive sensor

IDC2050BARKA/LS-100AK



Product characteristics

Output function		normally open
Sensing range	[mm]	50
Housing		rectangular
Dimensions	[mm]	92 x 80 x 40

Application

Application	Industrial applications / factory automation
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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

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Inductive sensor

IDC2050BARKA/LS-100AK

Switching frequency DC	[Hz]	25
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
	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; Contacts: 3

