

Factor 1 inductive sensor



Features

- ◆ Factor 1 for all metals
- ◆ Anti-magnetic field interference
- ◆ Extended sensing distance, easy for position setting and target control
- ◆ Adopt ASIC technology, more stable performance



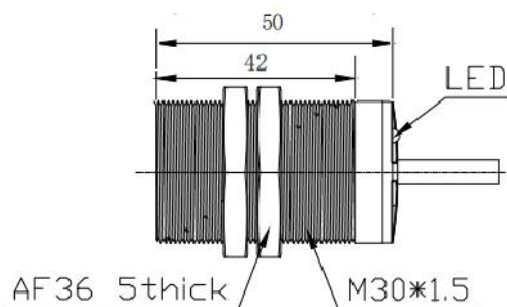
Part number

NPN NO	LR30XBF15DN0U	PNP NO	LR30XBF15DPOU
NPN NC	LR30XBF15DNCU	PNP NC	LR30XBF15DPCU

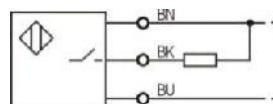
Technical specifications

Mounting	Flush	Consumption current	≤20mA
Rated distance S_n	15mm	Circuit protection	short circuit, overload, reverse polarity
Assured distance S_a	0...11.475mm	Output indicator	Yellow LED
Dimensions	M30*50mm	Ambient temperature	-40°C...70°C
Output	NO/NC(depends on part number)	Ambient humidity	35...95%RH
Supply voltage	10...30 VDC	Switching frequency	500 Hz
Standard target	ST45 45*45*1t	Special features	Factor 1 (iron, copper, aluminum, stainless steel attenuation < ±10%)
Switch-point drifts [%/Sr]	≤ ± 10%	Voltage withstand	1000V/AC 50/60Hz 60s
Hysteresis range [%/Sr]	1...20%	Insulation resistance	≥50MΩ (500VDC)
Repeat accuracy	≤5%	Vibration resistance	10...50Hz (1.5mm)
Load current	≤100mA	Degree of protection	IP67
Residual voltage	≤2.5V	Housing material	Nickel-copper alloy
Anti-magnetic field interference	<100mT	Connection way	2m PVC cable
Temperature drift	<15%		

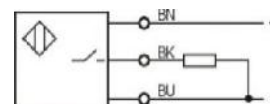
Dimensions



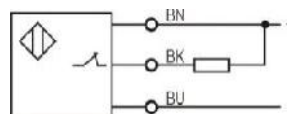
Wiring diagram



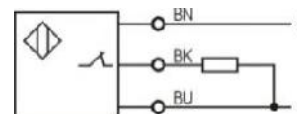
NPN NO



PNP NO



NPN NC



PNP NC