

Standard function type inductive sensors **LR30X** series



Features

- ◆ Non contact detection, safe and reliable;
- ◆ ASIC design;
- ◆ Perfect choice for metallic targets detection;



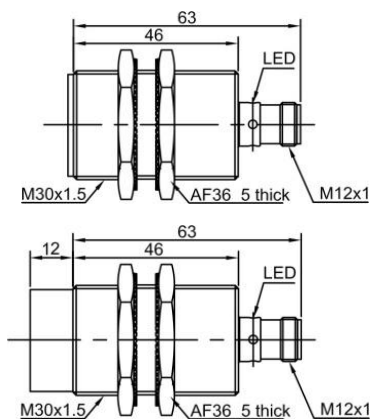
Part number

NPN	NO	LR30XBF10DNO-E2	LR30XBN15DNO-E2	PNP	NO	LR30XBF10DPO-E2	LR30XBN15DPO-E2
NPN	NC	LR30XBF10DNC-E2	LR30XBN15DNC-E2	PNP	NC	LR30XBF10DPC-E2	LR30XBN15DPC-E2
NPN	NO+NC	LR30XBF10DNR-E2	LR30XBN15DNR-E2	PNP	NO+NC	LR30XBF10DPR-E2	LR30XBN15DPR-E2

Technical specifications

Mounting	Flush	Non-flush	Current consumption	$\leq 15\text{mA}$	
Rated distance [Sn]	10mm	15mm	Circuit protection	Short-circuit, overload and reverse polarity	
Assured distance [Sa]	0...8mm	0...12mm	Output indicator	Yellow LED	
Dimensions	M30*63mm	M30*75 mm	Ambient temperature	$-25^{\circ}\text{C} \dots 70^{\circ}\text{C}$	
Output	NO/NC (depends on part number)		Ambient humidity	35-95%RH	
Supply voltage	10...30 VDC		Switching frequency [F]	500 Hz	300 Hz
Standard target	Fe 30*30*1t	Fe 45*45*1t	Voltage withstand	1000V/AC 50/60Hz 60s	
Switch-point drifts [%/Sr]	$\pm 10\%$		Insulation resistance	$\geq 50\text{M}\Omega (500\text{VDC})$	
Hysteresis range [%/Sr]	1...20%		Vibration resistance	10...50Hz (1.5mm)	
Repeat accuracy [R]	$\leq 3\%$		Degree of protection	IP67	
Load current	$\leq 200\text{mA}$		Housing material	Nickel-copper alloy	
Residual voltage	$\leq 2.5\text{V}$		Connection type	M12 connector	

Dimensions



Wiring diagram

