

Welding immune inductive sensors LR12XBF04DXXA-E2 series



Features

- ◆ PTFE housing design, prevent welding slag adhesion;
- ◆ Anti-magnetic interference;
- ◆ Full metal detection, attenuation coefficient is about to be 1;
- ◆ Extended sensing distance, easier location setting and target control;
- ◆ Lanbao ASIC technology, stable performance.



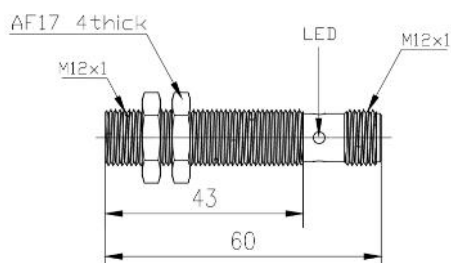
Part number

NPN NO	LR12XBF04DNOA-E2	PNP NO	LR12XBF04DPOA-E2
NPN NC	LR12XBF04DNCA-E2	PNP NC	LR12XBF04DPCA-E2

Technical specifications

Mounting	Flush	Current consumption	≤20mA
Rated distance [Sn]	4mm	Circuit protection	Short-circuit, overload and reverse polarity
Assured distance [Sa]	0...3.06mm	Output indicator	Yellow LED
Dimensions	M12*60mm	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 [F]	800 Hz
Standard target	Fe 12*12*1t	Special characteristic	Attenuation coefficient is about to be 1 (Iron, copper, aluminum, stainless steel attenuation<±10%)
Switch-point drifts [%/Sr]	≤ ±10%	Voltage withstand	1000V/AC 50/60Hz 60s
Hysteresis range [%/Sr]	3..20%	Insulation resistance	≥50MΩ (500VDC)
Repeat accuracy [R]	≤5%	Vibration resistance	Complex amplitude 1.5mm 10..50Hz (2 hours each in X, Y, and Z directions)
Load current	≤100mA	Degree of protection	IP67
Residual voltage	≤2.5V	Housing material	Brass coated with PTFE
Anti magnetic interference	<100mT	Connection type	M12 connector
Temperature drift	<15%		

Dimensions



Wiring diagram

