Metal cylindrical shape inductive sensors **LR12E** high protection series



Features

- ◆ Non contact detection, safe and reliable;
- ◆ ASIC design;
- ◆ High protection level up to IP68;
- ◆ Wide working temperature range, more flexible application.

Part number

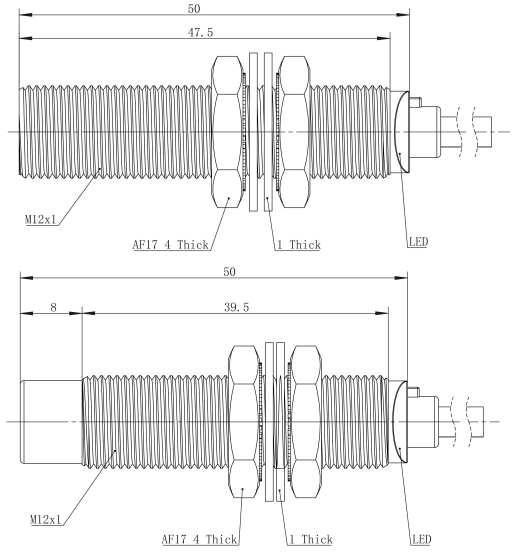
NPN	NO	LR12EBF04DNOY	LR12EBN08DNOY	PNP	NO	LR12EBF04DPOY	LR12EBN08DPOY
NPN	NC	LR12EBF04DNCY	LR12EBN08DNCY	PNP	NC	LR12EBF04DPCY	LR12EBN08DPCY

Technical specifications

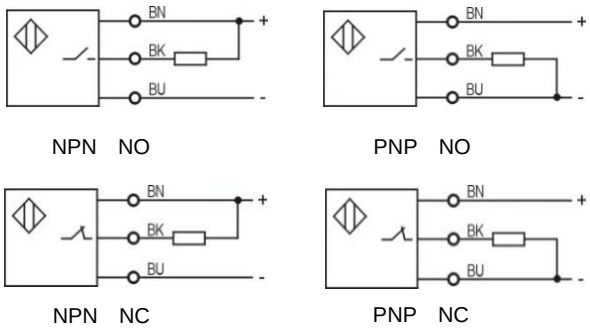
Mounting	Flush	Non-flush	Current consumption	≤15mA	
Rated distance [Sn]	4mm	8mm	Circuit protection	Short-circuit, overload and reverse polarity	
Assured distance [Sa]	0…3.06mm	0…6.12mm	Output indicator	Yellow LED	
Dimensions	M12*50mm		Ambient temperature	-40℃…85℃	
Output	NO/NC (depends on part number)		Ambient humidity	35-95%RH	
Supply voltage	10…30 VDC		Switching frequency [F]	800 Hz	500Hz
Standard target	Fe 12*12*1t	Fe 24*24*1t	Voltage withstand	1000V/AC 50/60Hz 60s	
Switch-point drifts [%/Sr]	±10%		Insulation resistance	≥50MΩ(500VDC)	
Hysteresis range [%/Sr]	3…15%		Vibration resistance	10…50Hz (1.5mm)	
Repeat accuracy [R]	≤5%		Degree of protection	IP68①	
Load current	≤200mA		Housing material	Nickel copper alloy	
Residual voltage	≤2V		Connection type	2m φ3.9 PUR cable	

Note: ① IP68 test condition--100kpa water pressure (≈10m water depth) for 2 hours.

Dimensions



Wiring diagram



NPN NO　　PNP NO

NPN NC　　PNP NC