Metal cylindrical shape inductive sensors **LR30E** 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

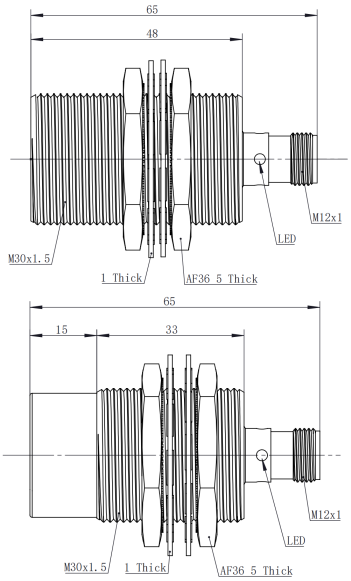
NPN	NO	LR30EBF15DNOY-E2	LR30EBN22DNOY-E2	PNP	NO	LR30EBF15DPOY-E2	LR30EBN22DPOY-E2
NPN	NC	LR30EBF15DNCY-E2	LR30EBN22DNCY-E2	PNP	NC	LR30EBF15DPCY-E2	LR30EBN22DPCY-E2

Technical specifications

Mounting	Flush	Non-flush	Current consumption	≤15mA	
Rated distance [Sn]	15mm	22mm	Circuit protection	Short-circuit, overload and reverse polarity	
Assured distance [Sa]	0…11.48mm	0…16.83mm	Output indicator	Yellow LED	
Dimensions	M30*65mm		Ambient temperature	-40℃…85℃	
Output	NO/NC (depends on part number)		Ambient humidity	35-95%RH	
Supply voltage	10…30 VDC		Switching frequency [F]	400 Hz	150Hz
Standard target	Fe 45*45*1t	Fe 66*66*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	M12 connector	

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

Dimensions



Wiring diagram

