

Metal cylindrical shape inductive sensors LR18E 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

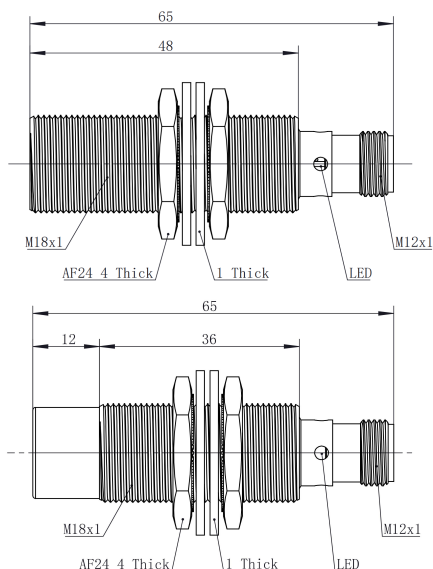
NPN NO	LR18EBF08DNOY-E2	LR18EBN12DNOY-E2	PNP NO	LR18EBF08DPOY-E2	LR18EBN12DPOY-E2
NPN NC	LR18EBF08DNCY-E2	LR18EBN12DNCY-E2	PNP NC	LR18EBF08DPCY-E2	LR18EBN12DPCY-E2

Technical specifications

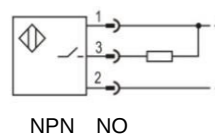
Mounting	Flush	Non-flush	Current consumption	$\leq 15\text{mA}$	
Rated distance [Sn]	8mm	12mm	Circuit protection	Short-circuit, overload and reverse polarity	
Assured distance [Sa]	0...6.12mm	0...9.18mm	Output indicator	Yellow LED	
Dimensions	M18*65mm		Ambient temperature	$-40^{\circ}\text{C} \dots 85^{\circ}\text{C}$	
Output	NO/NC (depends on part number)		Ambient humidity	35-95%RH	
Supply voltage	10...30 VDC		Switching frequency [F]	500 Hz	200Hz
Standard target	Fe 24*24*1t	Fe 36*36*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]	3...15%		Vibration resistance	10...50Hz (1.5mm)	
Repeat accuracy [R]	$\leq 5\%$		Degree of protection	IP68	
Load current	$\leq 200\text{mA}$		Housing material	Nickel copper alloy	
Residual voltage	$\leq 2\text{V}$		Connection type	M12 connector	

Note: IP68 test condition--100kpa water pressure ($\approx 10\text{m}$ water depth) for 2 hours.

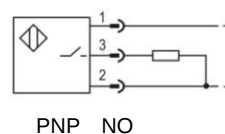
Dimensions



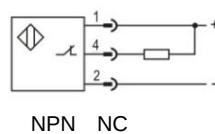
Wiring diagram



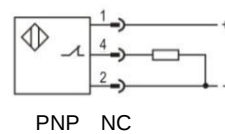
NPN NO



PNP NO



NPN NC



PNP NC

