



Inductive (metal sensing) Proximity Switches

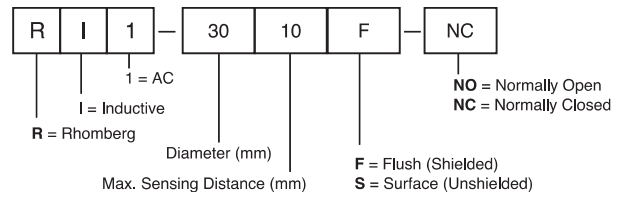
AC (Tubular 2 Wire)

RI1

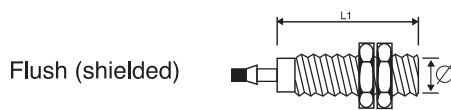


RI1-4025S- RI1-3010F- RI1-1808S- RI1-1202F-

ORDERING CODE



Part Number	Diameter θ mm	Sensing Distance Sn mm	Length		Type
			L1 mm	L2 mm	
RI1-1202F-NO	M12x1	2	85		2 Wire NO Shielded
RI1-1202F-NC	M12x1	2	85		2 Wire NC Shielded
RI1-1204S-NO	M12x1	4	85	6	2 Wire NO Unshielded
RI1-1204S-NC	M12x1	4	85	6	2 Wire NC Unshielded
RI1-1805F-NO	M18x1	5	60		2 Wire NO Shielded
RI1-1805F-NC	M18x1	5	60		2 Wire NC Shielded
RI1-1808S-NO	M18x1	8	60	10	2 Wire NO Unshielded
RI1-1808S-NC	M18x1	8	60	10	2 Wire NC Unshielded
RI1-3010F-NO	M30x1.5	10	60		2 Wire NO Shielded
RI1-3010F-NC	M30x1.5	10	60		2 Wire NC Shielded
RI1-3015S-NO	M30x1.5	15	60	15	2 Wire NO Unshielded
RI1-3015S-NC	M30x1.5	15	60	15	2 Wire NC Unshielded
RI1-4020F-NO	M40x1.5	20	60		2 Wire NO Shielded
RI1-4020F-NC	M40x1.5	20	60		2 Wire NC Shielded
RI1-4025S-NO	M40x1.5	25	60	15	2 Wire NO Unshielded
RI1-4025S-NC	M40x1.5	25	60	15	2 Wire NC Unshielded



Technical Specifications

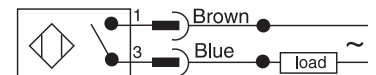
Supply voltage: 20-250V
Minimum load current: 10mA
Max Continuous load current: 400mA (ambient temp ≤ 30°C)
Off state Quiescent current: ≤ 2.5mA at 250 VAC

Temperature Drift: 10%
Hysteresis (typical): 10%
Protection: IP68
Operational Temp: -20°C to 70°C
Cable length: 2m
Cable colour stripe: red (for AC 2 wire)
LED colour: Red (NO) or Green (NC)

Max switching frequency: 25Hz

Important:

These sensors are not protected against sustained over current fault conditions. The fitting of an external inline 0.4A fuse is therefore advised.



RI1 sensors are **always connected in series with the load**. Though protected by an internal VDR clamp, it is advisable to add an external snubber network in parallel with highly inductive loads, eg. contactors and relays.

Since these sensors receive their operating current via the load, a residual current (≤ 2.5mA) is maintained through the load at all times. In the non-active (open) state, this current may prevent light loads, such as small relays and electronic timers, from releasing. This problem can be overcome by connecting a dummy load (eg. light bulb) in parallel with the load.