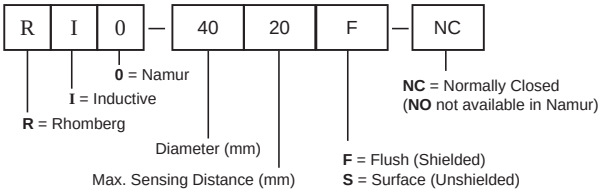
Inductive (metal sensing) Proximity Switches

Namur (Tubular 2 wire) DIN 19234

RI0

RI0-4025S-NC RI0-3010F-NC RI0-1808S-NC RI0-1202F-NC

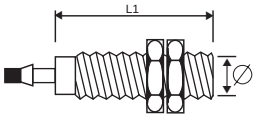
ORDERING CODE



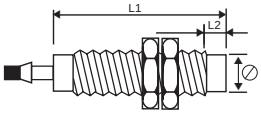
Note: Add "-MTP" for sensor with plug instead of cable (except M40)

Part Number	Diameter θ mm	Sensing Distance Sn mm	Length L1 mm	Length L2 mm	Type
RI0-1202F-NC	M12x1	2	40		2 Wire Shielded
RI0-1204S-NC	M12x1	4	45	6	2 Wire Unshielded
RI0-1805F-NC	M18x1	5	40		2 Wire Shielded
RI0-1808S-NC	M18x1	8	50	10	2 Wire Unshielded
RI0-3010F-NC	M30x1.5	10	60		2 Wire Shielded
RI0-3015S-NC	M30x1.5	15	60	15	2 Wire Unshielded
RI0-4020F-NC	M40x1.5	20	60		2 Wire Shielded
RI0-4025S-NC	M40x1.5	25	60	15	2 Wire Unshielded

DETECHTOR



Flush (shielded)

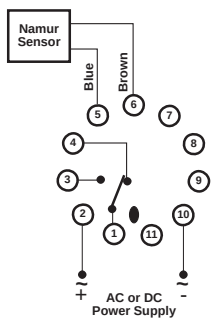


Non-flush (unshielded)

Technical Specifications

Supply voltage: 8.2 to 10 VDC
Sensing current: < 1mA (0.8mA typical)
Non-sensing current: > 2.2mA (4mA typical)

Temperature Drift: 10%
Hysteresis (typical): 10%
Protection: IP68
Operational Temp: -20°C to 70°C
Cable length: 2m
Cable colour stripe: blue (for Namur)



Wiring Example showing Namur sensor connected to Rhomberg SC300 Control Module

The Namur sensor has been designed to conform to the DIN 19234 standard, which specifies the magnitude of current that flows in the circuit relative to its active or non-active state. Due to their "current loop" method of operation, Rhomberg Namur sensors are highly reliable and robust even in the harshest environments and tend to be immune to electrical noise as induced voltages have minimal effect on the current signal.

Namur sensors are designed to provide a current signal to a suitable Namur control module **(refer to Rhomberg SC230, SC300, C320P, SC320)**. Load switching and other control functions are performed by the control module and not by the sensor. The control module provides the sensor with a supply voltage (8.2-10 VDC) and signals whether it is sensing a target or not, by varying its current consumption:
Non-activated state: > 2.2mA
Activated state: < 1mA