



**Part number: SIP000155 - Model: SIQ80-NE50**

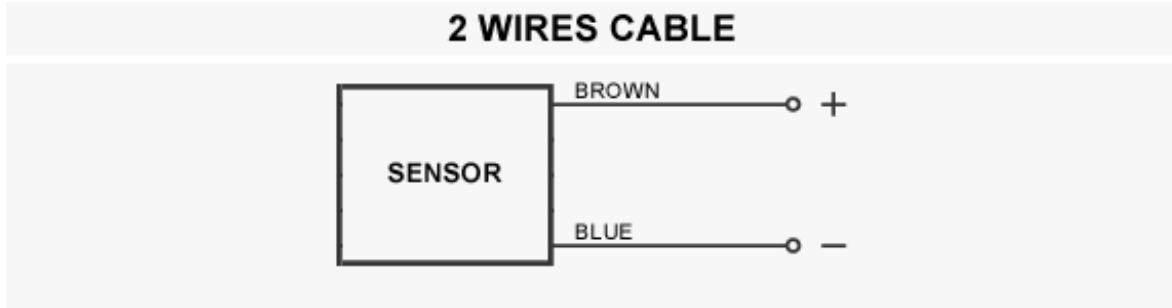


<b>TECHNICAL CHARACTERISTICS</b>	
Power supply:	Direct current
Working voltage:	5 ÷ 30 Vdc
Switching distance (mm):	10 ÷ 60 (adjustable)
Max switching frequency:	100 Hz
Repeatability (%Sn):	< = 3
Absorption:	On < = 1 mA - Off >= 3 mA @ 8.2V
Temperature limits:	-25 ÷ +70 °C
IP rating:	IP 67
Housing material:	Plastic
Mechanical characteristics:	SIQ 80x80x50
Connection type:	Cable 3 m
Cable type:	2x0.50 PVC
Weighth:	460 g



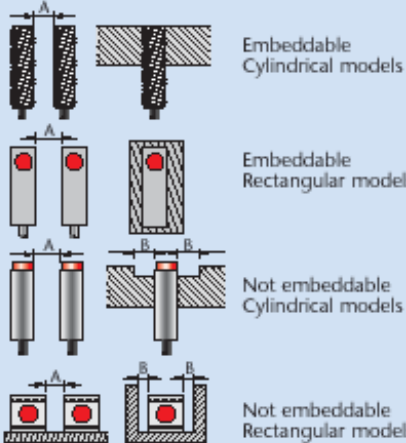
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**WIRING DIAGRAM**



**INSTRUCTIONS FOR CORRECT INSTALLATION**

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Embeddable Cylindrical models

Embeddable Rectangular models

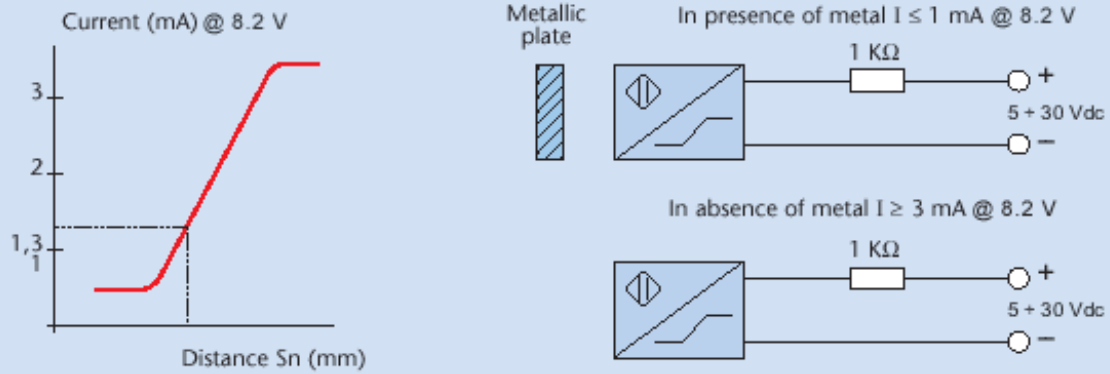
Not embeddable Cylindrical models

Not embeddable Rectangular models

	▲ (A) mm	● (A) mm	● (B) mm
SI 6.5	≥ 4	≥ 16	≥ 8
SI 8	≥ 4	≥ 16	≥ 8
SI 12	≥ 6	≥ 24	≥ 12
SI 14	≥ 7	≥ 28	≥ 14
SI 18	≥ 9	≥ 36	≥ 18
SI 30	≥ 15	≥ 60	≥ 30
SIP A8	≥ 2	-	-
SIP C8	≥ 2	-	-
SIP 10	≥ 10	-	≥ 0
SIP 12	≥ 6	≥ 12	≥ 6
SIP 17	-	≥ 20	≥ 6
SIP 40	≥ 30	≥ 50	≥ 15
SIQ 80	-	≥ 450	≥ 70

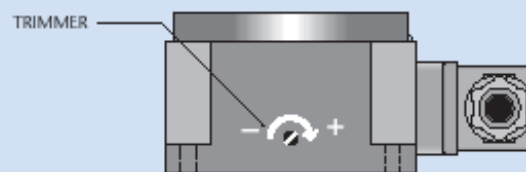
N.B. A = Mutual interference - B = Interference with metallic part

## WORKING PRINCIPLE



The NAMUR sensors are electronic devices whose absorbed current varies in the presence of a metallic object. The difference between these sensors and traditional sensors is the absence of amplifier trigger stages.

## SENSITIVITY ADJUSTMENT



This sensor is supplied with a trimmer for the sensitivity adjustment. The sensitivity increases when the trimmer is rotated in the clockwise direction and decreases in the anti-clockwise direction. Avoid using for a capacity greater than 60 mm referred to a square piece of (FE 37) steel of 1 mm thickness the side of which is equal to 100 mm. When setting the sensor keep in consideration all other metallic objects nearby, in fact setting is suggested to be made when the sensor is installed in the normal working conditions. The sensor is supplied already pre-set to 50 mm sensitivity.