

# Rectangular SIQ80

## RECTANGULAR INDUCTIVE SENSORS SIQ 80

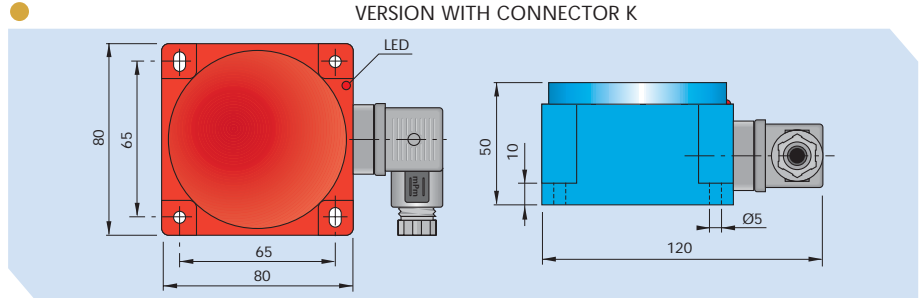


4 WIRES D.C.  
CONFORMING TO EN 50044  
VERSION-C

● **NOT EMBEDDABLE**  
(NON FLUSH MOUNTING)

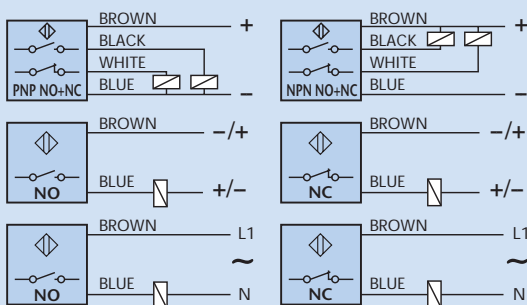
### TECHNICAL CHARACTERISTICS

Dimensions mm



	NPN		NO+NC		SIQ 80 - CE50 NPN NO + NC	SIQ 80 - CE50 NPN NO + NC K
	PNP		NO+NC		SIQ 80 - CE50 PNP NO + NC	SIQ 80 - CE50 PNP NO + NC K
AMPLIFIED 4 WIRES D.C. ANTIPHASE						
AMPLIFIED 2 WIRES D.C.			NO			
			NC			
AMPLIFIED 2 WIRES A.C.			NO			
			NC			
Switching distance Sn					10 ÷ 60 (sensitivity adjustable)	
Continuous voltage (residual ripple ≤10%)					10 ÷ 55	
Alternating voltage 50÷60 Hz					V	
Hysteresis (%Sn)					<10% (Sn = 50 mm)	
Switching frequency					50	
Repeatability			% of Sn		≤ 3	
Max output current					mA	
Min output current					mA	
Max peak current for 20 mS					A	
Absorption at 24Vdc					mA	
Residual current					mA	
Voltage drop (sensor ON)					V	
Short circuit protection					Incorporated	
Led					Incorporated	
Temperature limits			°C		- 25 ÷ + 70	
IP rating			IP		67	65
Housing					Red plastic	
Cable PVC			2m		4 x 0.25 mm <sup>2</sup>	
Connector plug						K (type 12)

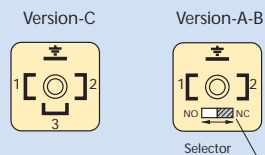
### WIRING DIAGRAMS



N.B.: Upon request cable for sensors with different lengths 3.5 - 5 - 7.5 - 10 metres is available.

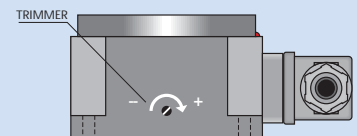
### CONNECTION WITH K PLUG FOR THE CONNECTORS SEE PAGE 85

#### VIEW OF MALE CONNECTOR K



Version	Contact numeration			
	1	2	3	⊕
B	-	+		
C (NO or NC)	-	+		NC/NO
C (Antiphase)	-	+	NC	NO
A	L1	N		

### 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 preset to 50 mm sensitivity.

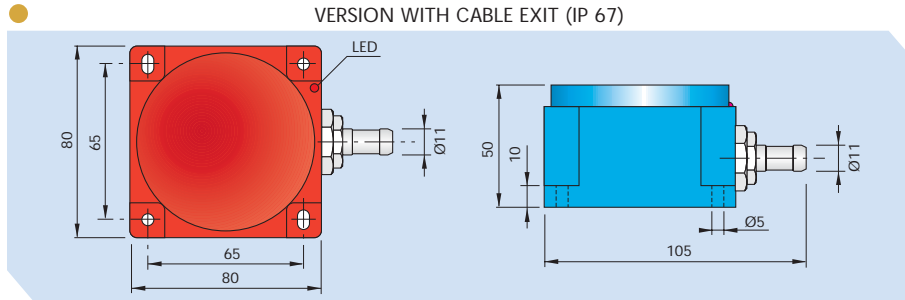
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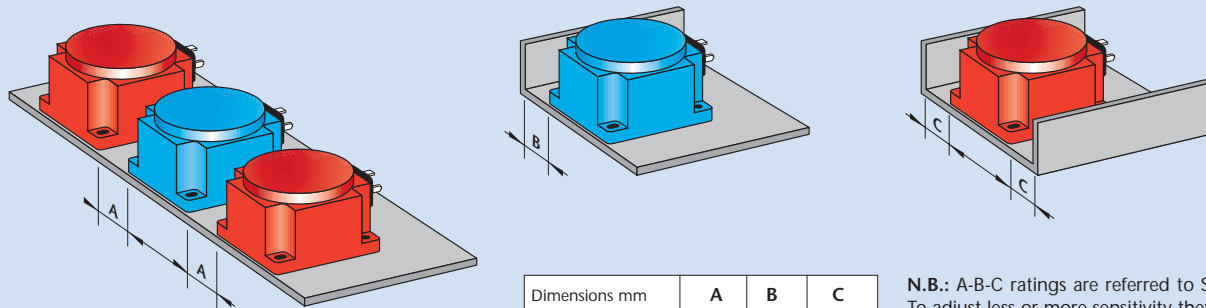
2 WIRES D.C.  
CONFORMING TO EN 50044  
VERSION-B

2 WIRES A.C.  
CONFORMING TO EN 50044  
VERSION-A



SIQ 80 - BE50 NO	PROGRAMMABLE	SIQ 80 - AE50 NO	PROGRAMMABLE
SIQ 80 - BE50 NC	SIQ 80 - BE50 NO/NC K	SIQ 80 - AE50 NC	SIQ 80 - AE50 NO/NC K
10 ÷ 60 (sensitivity adjustable)		10 ÷ 60 (sensitivity adjustable)	
10 ÷ 55		20 ÷ 250	
< 10% (Sn = 50 mm)		< 10% (Sn = 50 mm)	
50		12	
≤ 3		≤ 3	
100		300	
1.5		5	
		1.5	
< 0.6		< 1	
< 6.5		< 6	
Incorporated		Incorporated	
Incorporated		- 25 ÷ + 70	
67	65	67	65
Red plastic		Blue plastic	
2 x 0.50 mm <sup>2</sup>		2 x 0.50 mm <sup>2</sup>	
	K (type 12)		K (type 12)

### INSTRUCTIONS FOR CORRECT INSTALLATION



Dimensions mm	A	B	C
SIQ 80	≥450	≥45	≥70

**N.B.:** A-B-C ratings are referred to Sn = 35 mm.  
To adjust less or more sensitivity they either must be decreased or increased.