



Part number: SIA000134 - Model: SIA100-CE NPN NO+NC R



TECHNICAL CHARACTERISTICS

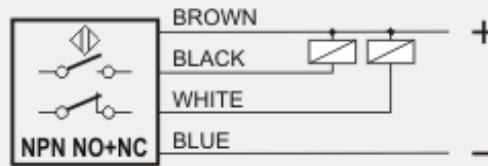
Power supply:	Direct current
Working voltage:	10 ÷ 30 Vdc
Sensing hole diameter (mm):	100
Minimum detectable object (mm):	Ø 12 x 20
Output logic:	NPN
Function:	NO+NC
Hysteresis (%Sn):	Depends on the sensitivity
Max switching frequency:	See instructions for installation
Delay ON de-energization:	100 mSec (when inserted)
Repeatability (%Sn):	< = 0.3
Max output current:	200 mA
Absorption:	< 15 mA @ 24Vdc
Voltage drop:	< 1.8 V
Short circuit protection:	Present
Led indicator:	Present
Temperature limits:	-20 ÷ +60 °C
IP rating:	IP 65
Housing material:	Plastic
Mechanical characteristics:	SIA100 140x165x29
Connection type:	Cable 2 m
Cable type:	4x0.25 PVC
Weigth:	710 g



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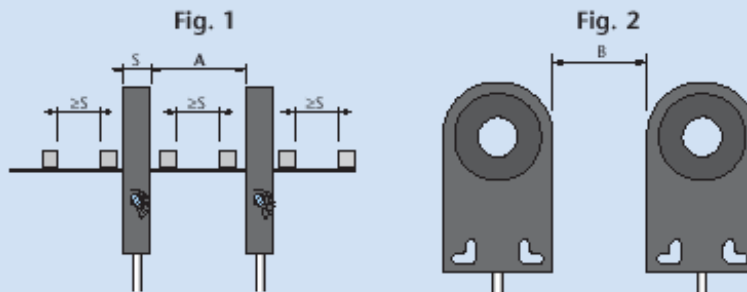
WIRING DIAGRAM

4 WIRES CABLE - LOGIC NPN NO+NC



INSTRUCTIONS FOR CORRECT INSTALLATION

INSTRUCTIONS FOR CORRECT INSTALLATION



Model	SIA05	SIA12	SIA15	SIA22	SIA30	SIA44	SIA63	SIA100
A (Fig. 1) mm	25	30	30	60	60	300	300	600
B (Fig. 2) mm	10	10	10	20	20	250	250	650

MIN. DIMENSIONS OF THE OBJECT TO DETECT (Fe37)

Model	SIA100	
Lenght	mm	20
Diameter	mm	12

SWITCHING FREQUENCY

The switching frequency of inductive ring sensors depends on delayed impulse time (**when inserted**) according to the formula :

$$\text{Switching frequency (Hz)} = \frac{1}{(T \text{ impulse} + 10) \text{ mS}}$$

Vice versa, the switching frequency will be 100 Hz.