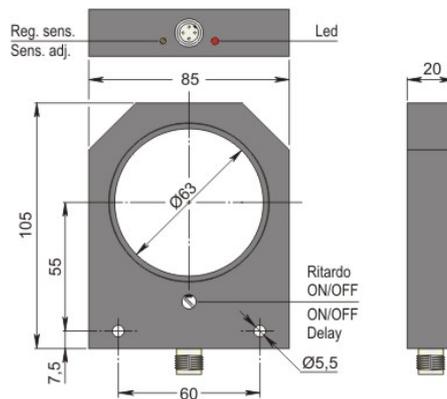


Part number: **SIA000156** Model: **SIA63-CE PNP NO+NC H R**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



| Electrical data | |
|------------------------------|--|
| Power supply type: | Direct current |
| Working voltage: | [V] 10 ÷ 30 |
| Current consumption: | [mA] < 15 mA @ 24Vdc |
| Protection class: | III |
| Reverse polarity protection: | Presente |
| Outputs | |
| Electrical design: | PNP |
| Function: | NO+NC |
| Delay ON de-energization: | [ms] 100 (when inserted) |
| Max voltage drop: | [V] < 1.8 |
| Max output current: | [mA] 200 |
| Max switching frequency: | [Hz] See instructions for installation |
| Short circuit protection: | Present |
| Overload protection: | Present |
| Detection zone | |
| Sensing hole diameter: | [mm] 63 |
| Minimum detectable object: | [mm] Ø 6x12 - Fe360 |
| Accuracy and Deviations | |
| Correction factor: | Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4 |
| Hysteresis: | [%Sr] Depends on the sensitivity |
| Switching point drift: | [%Sr] -1 |
| Repeatability: | [%Sn] < 0.3 |
| Environmental conditions | |
| Temperature limits: | [°C] -20 / +60 °C |
| IP rating: | IP65 |
| Display and control elements | |
| Display: | Output switching status - 4 x 90° LED: Yellow |



Mechanical data

| | | |
|-------------|------|--|
| Housing: | | Ring |
| Dimensions: | [Hz] | 85 x 20 x 105 |
| Materials: | | Housing: PVC black - Sensing area: PVC black |
| Mounting: | | Not embeddable |
| Weigth: | [g] | 170 |

Electrical connection

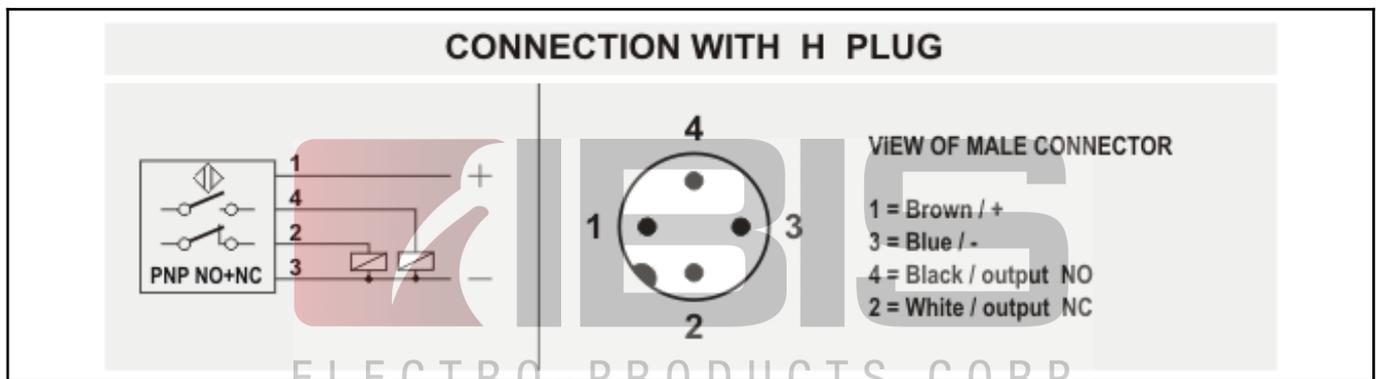
| | | |
|------------|--|---------------------------------------|
| Connector: | | H type - M12X1 - Gold plated contacts |
|------------|--|---------------------------------------|

Compliance to Standards / Directives

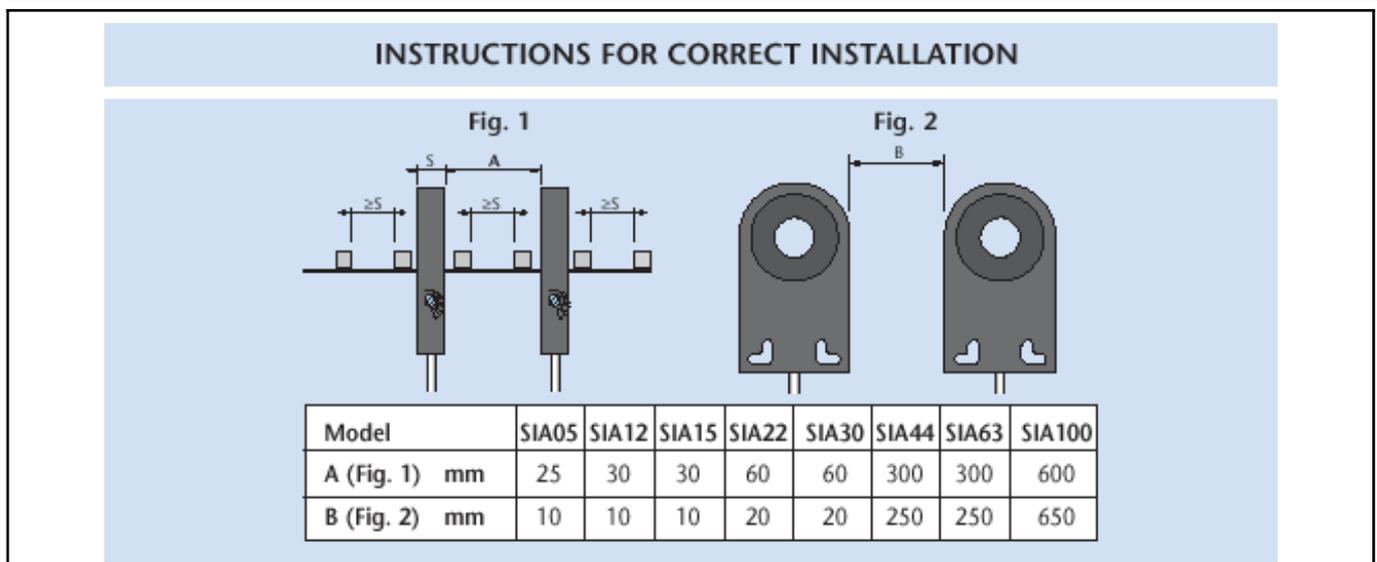
| | | |
|------------------------|--|---|
| Directives compliance: | | 2014/30/EU -Electromagnetic compatibility directive (EMC) |
| Standards compliance: | | EN60947-5-2 - Product standard |

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Titolo img 1

MIN. DIMENSIONS OF THE OBJECT TO DETECT (Fe37)

| | | |
|----------|----|-------|
| Model | | SIA63 |
| Lenght | mm | 12 |
| Diameter | mm | 6 |

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 between 100+200 Hz.

