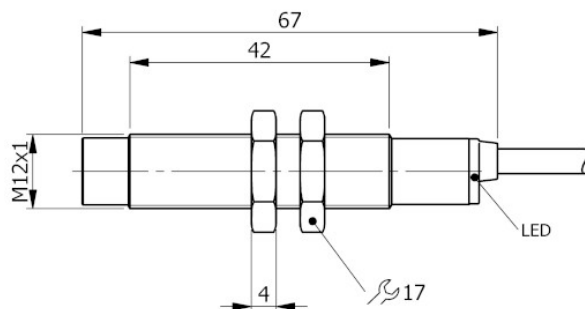


Part number: **I12000085** Model: **SI12-CE4 NPN NO**

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:                |      | NPN     |
| Function:                         |      | NO      |
| Max voltage drop:                 | [V]  | < 1.8   |
| Max output current:               | [mA] | 200     |
| Max switching frequency:          | [Hz] | 1000    |
| Short circuit protection:         |      | Present |
| Type of short-circuit protection: |      | Pulsed  |
| Overload protection:              |      | Present |

**Detection zone**

|                           |      |          |
|---------------------------|------|----------|
| Switching distance-Sn:    | [mm] | 4        |
| Real sensing distance-Sr: | [mm] | 4 ±10%   |
| Operative distance-So:    | [mm] | 0 ÷ 3.24 |

**Accuracy and Deviations**

|                        |       |                                                                  |
|------------------------|-------|------------------------------------------------------------------|
| Correction factor:     |       | Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4 |
| Hysteresis:            | [%Sr] | < 10                                                             |
| Switching point drift: | [%Sr] | -10 ÷ +10                                                        |
| Repeatability:         | [%Sn] | < 3                                                              |

**Environmental conditions**

|                     |      |                |
|---------------------|------|----------------|
| Temperature limits: | [°C] | -25 ÷ +85      |
| IP rating:          |      | IP65-IP66-IP67 |

### Display and control elements

|          |                                           |
|----------|-------------------------------------------|
| Display: | Output switching status - 1 x LED: Yellow |
|----------|-------------------------------------------|

### Mechanical data

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                          |
| Thread designation: | M12x1                                                                                 |
| Dimensions:         | [mm] M12x1 - L=67.5                                                                   |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM red - Lock nuts: Nickel-plated brass |
| Mounting:           | Not embeddable                                                                        |
| Weigth:             | [g] 85                                                                                |

### Electrical connection

|        |                                          |
|--------|------------------------------------------|
| Cable: | 2 m - PVC/PVC - 3 x 0.25 mm <sup>2</sup> |
|--------|------------------------------------------|

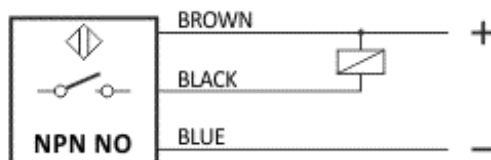
### Compliance to Standards / Directives

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

## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

#### 3 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION

