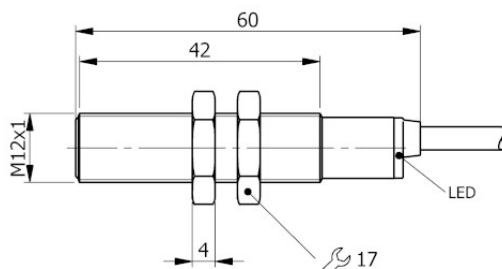


Part number: **I12000443** Model: **SI12-DC4 PNP NO**



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:            | PNP     |
| Function:                     | NO      |
| Max voltage drop: [V]         | < 1.8   |
| Max output current: [mA]      | 200     |
| Max switching frequency: [Hz] | 1000    |
| Short circuit protection:     | Present |
| Overload protection:          | Present |

### Detection zone

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

### 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=61                                                                           |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM grey - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 80                                                                                     |

### Electrical connection

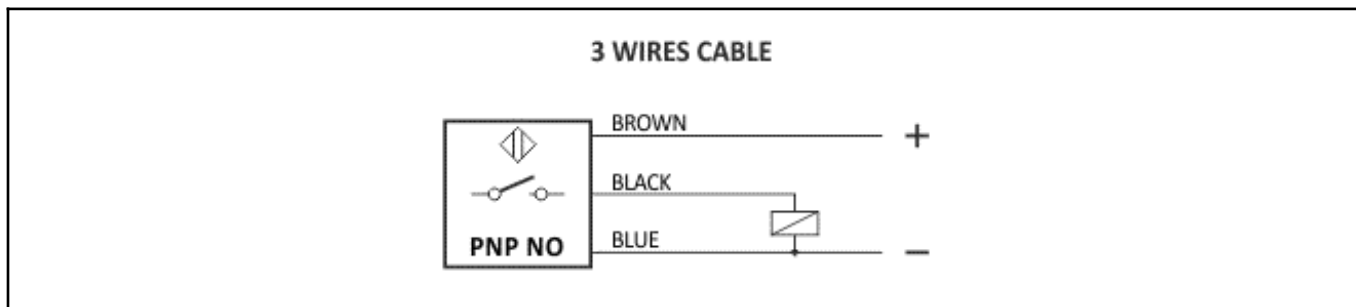
|        |                                          |
|--------|------------------------------------------|
| Cable: | 2 m - PVC/PVC - 3 x 0.25 mm <sup>2</sup> |
|--------|------------------------------------------|

### 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



### INSTRUCTIONS FOR CORRECT INSTALLATION

