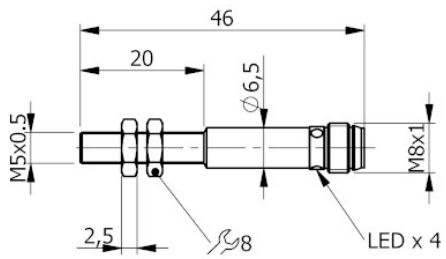
# POSITION SENSORS
## Inductive Sensors

Part number: **I45000082** Model: **SI5-DC1.5 PNP NO H1**




Dimension in mm

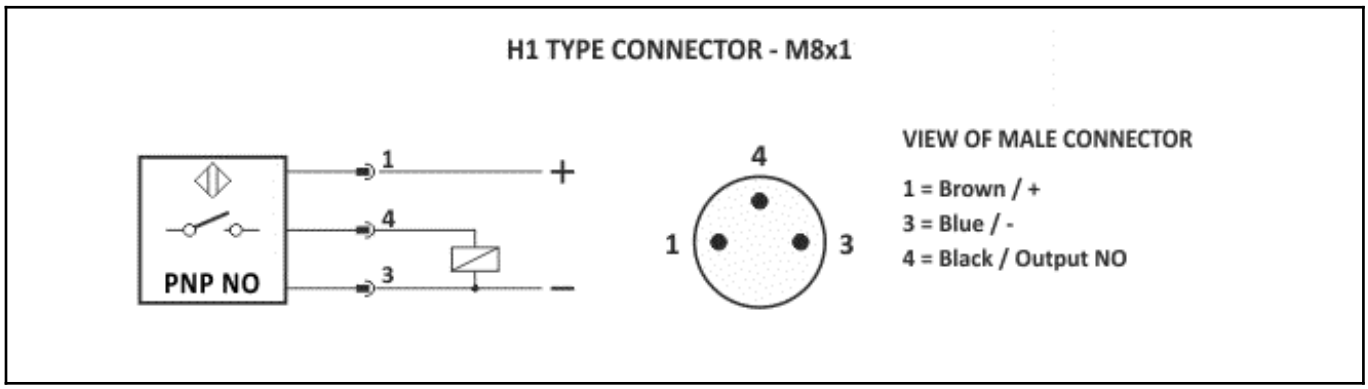
## 1. TECHNICAL CHARACTERISTICS

| | | |
|---|---|---|
| **Electrical data** | | |
| Power supply type: | | Direct current |
| Working voltage: | [V] | 10 ÷ 30 |
| Current consumption: | [mA] | < 10 mA @ 24Vdc |
| Protection class: | | III |
| Reverse polarity protection: | | Presente |
| **Outputs** | | |
| Electrical design: | | PNP |
| Function: | | NO |
| Max voltage drop: | [V] | < 1.4 |
| Max output current: | [mA] | 100 |
| Max switching frequency: | [Hz] | 2000 |
| Short circuit protection: | | Present |
| Overload protection: | | Present |
| **Detection zone** | | |
| Switching distance-Sn: | [mm] | 1.5 |
| Real sensing distance-Sr: | [mm] | 1.5 ±10% |
| Operative distance-So: | [mm] | 0 ÷ 1.22 |
| 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] | -1 |
| Repeatability: | [%Sn] | < 3 |
| **Environmental conditions** | | |
| Temperature limits: | [°C] | -25°C ÷ +70°C |
| IP rating: | | IP65-IP66-IP67 (depending on connector ) |

| | | |
|---|---|---|
| **Display and control elements** | | |
| Display: | | Output switching status - 4 x 90° LED: Yellow |
| **Mechanical data** | | |
| Housing: | | Threded type |
| Thread designation: | | M5x0.5 |
| Dimensions: | [mm] | M5x0.5 - L=46 |
| Materials: | | Housing: AISI 303 - Sensing area: POM black - Lock nuts: Nickel-plated brass |
| Mounting: | | Embeddable |
| Weigth: | [g] | 20 |
| **Electrical connection** | | |
| Connector: | | H1 type - M8X1 - 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

