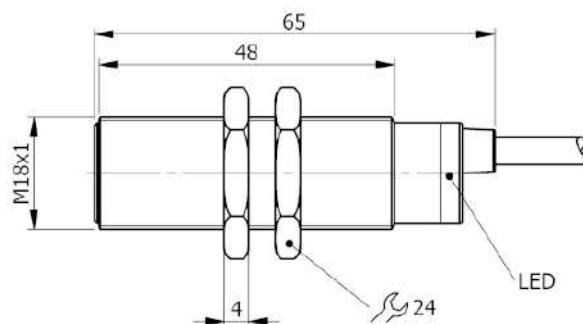


Part number: **I18000003** Model: **SI18-A5 NC**



Dimension in mm

## 1. TECHNICAL CHARACTERISTICS



### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NC  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=65                                                                           |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 130                                                                                    |

### Electrical connection

|        |                                          |
|--------|------------------------------------------|
| Cable: | 2 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|------------------------------------------|

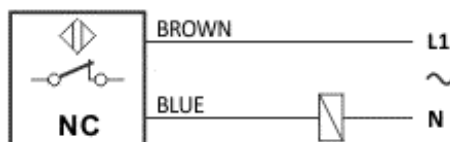
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

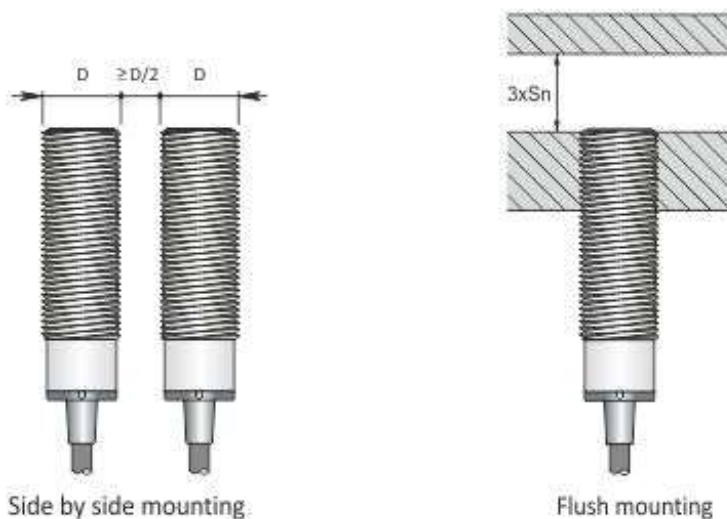
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

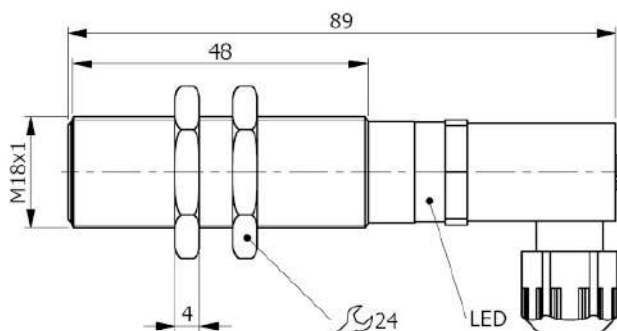
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000002** Model: **SI18-A5 NC K**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                    |                     |
|--------------------|---------------------|
| Power supply type: | Alternating current |
| Working voltage:   | [V] 20 ÷ 250        |
| Protection class:  | III                 |

### Outputs

|                          |          |
|--------------------------|----------|
| Function:                | NC       |
| Max voltage drop:        | [V] < 6  |
| Max output current:      | [mA] 300 |
| Minimum output current:  | [mA] 5   |
| Max peak current:        | [A] 1.5  |
| Residual current:        | [mA] < 1 |
| Max switching frequency: | [Hz] 12  |

### Detection zone

|                           |               |
|---------------------------|---------------|
| Switching distance-Sn:    | [mm] 5        |
| Real sensing distance-Sr: | [mm] 5 ±10%   |
| Operative distance-So:    | [mm] 0 ÷ 4.05 |

### 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 ÷ +70 |
| IP rating:          | IP65           |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions:         | [mm] M18x1 - L=61                                                                      |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth:             | [g] 80                                                                                 |

### Electrical connection

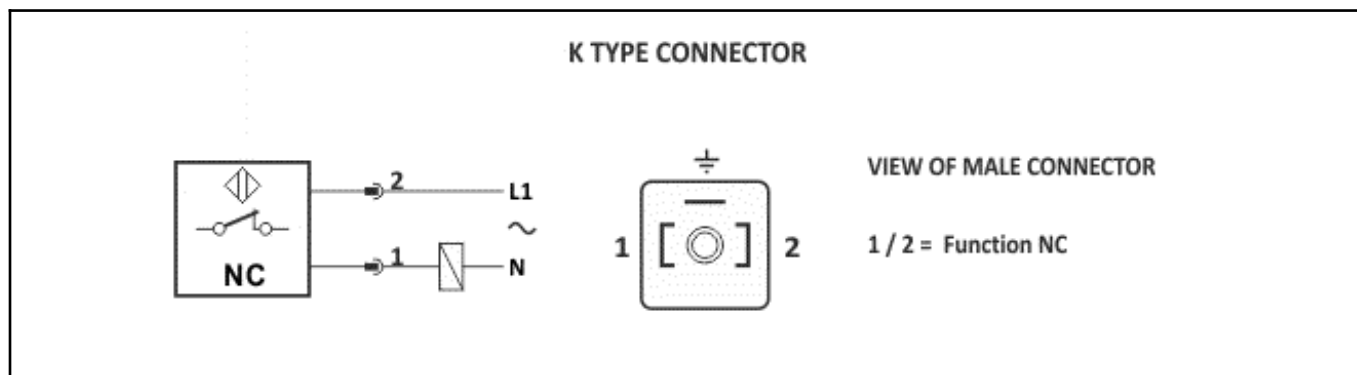
|            |                                 |
|------------|---------------------------------|
| Connector: | K Type - 3 poles - EN 17301-803 |
|------------|---------------------------------|

### Compliance to Standards / Directives

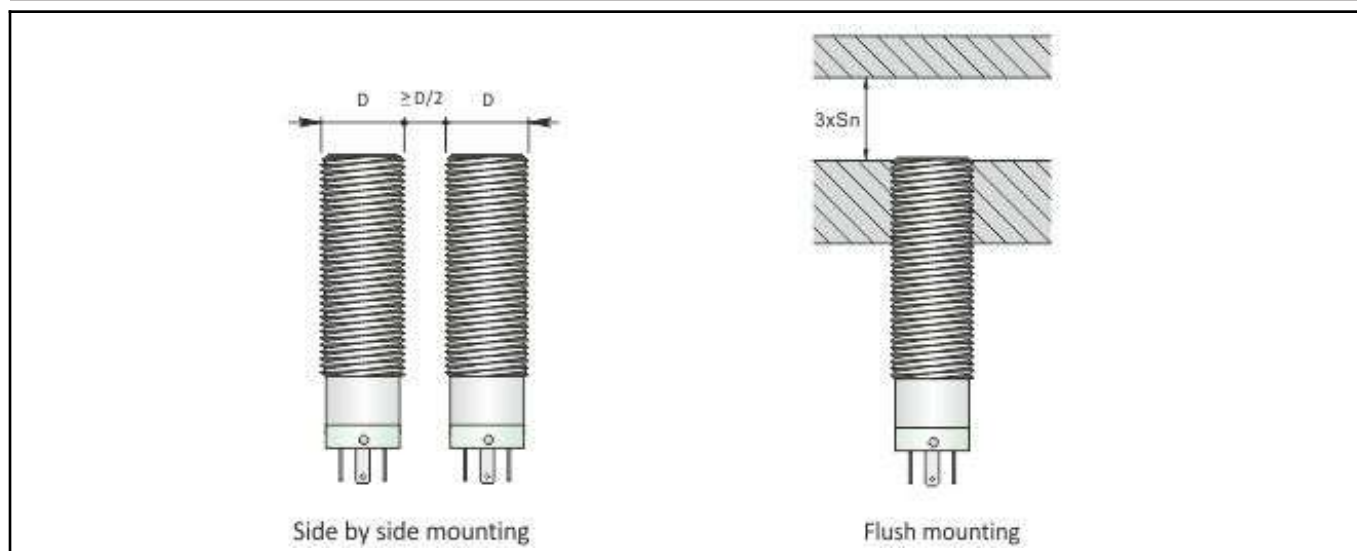
|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

## 2. NORME DI INSTALLAZIONE

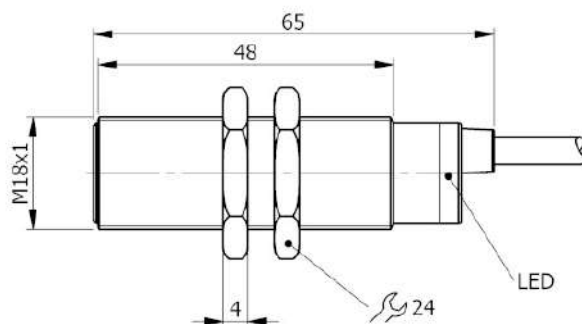
### WIRING DIAGRAM



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000151** Model: **SI18-A5 NC LC10**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NC  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=51.5                                                                         |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 360                                                                                    |

### Electrical connection

|        |                                           |
|--------|-------------------------------------------|
| Cable: | 10 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|-------------------------------------------|

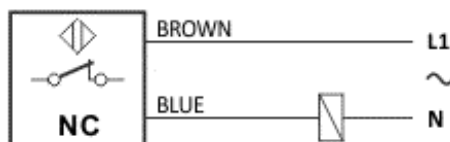
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

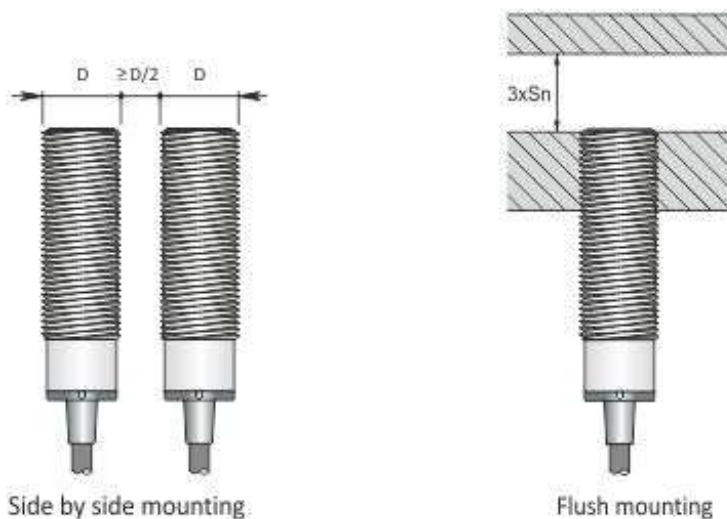
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

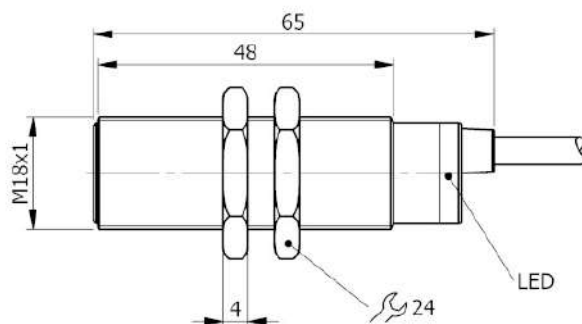
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000149** Model: **SI18-A5 NC LC5**



Dimension in mm



### 1. TECHNICAL CHARACTERISTICS

#### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

#### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NC  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

#### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

#### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

#### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=51.5                                                                         |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 220                                                                                    |

### Electrical connection

|        |                                          |
|--------|------------------------------------------|
| Cable: | 5 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|------------------------------------------|

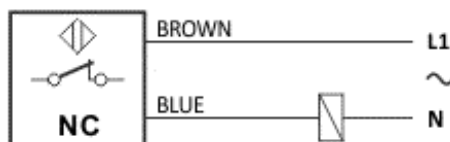
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

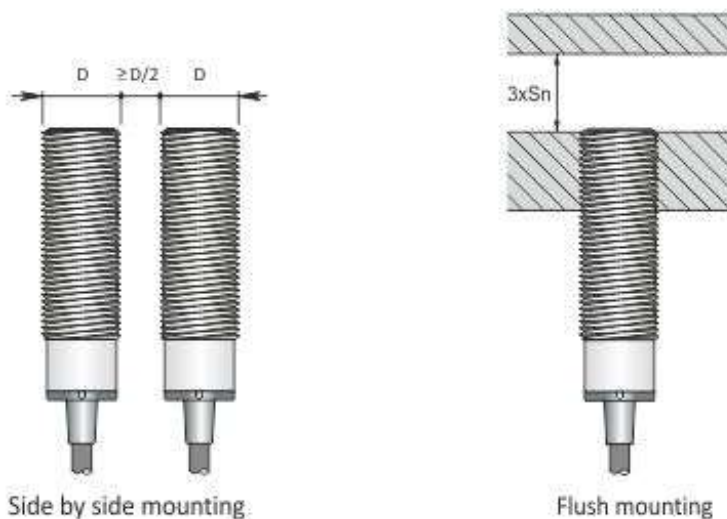
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

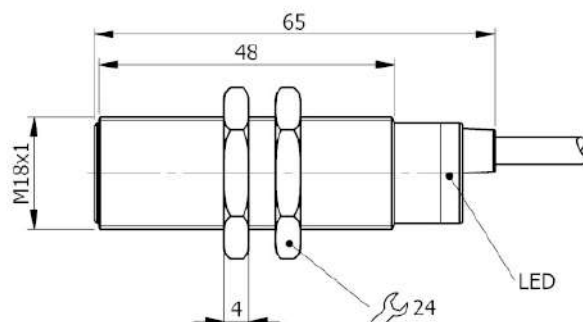
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000006** Model: **SI18-A5 NO**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NO  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=65                                                                           |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 130                                                                                    |

### Electrical connection

|        |                                          |
|--------|------------------------------------------|
| Cable: | 2 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|------------------------------------------|

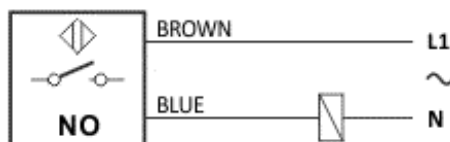
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

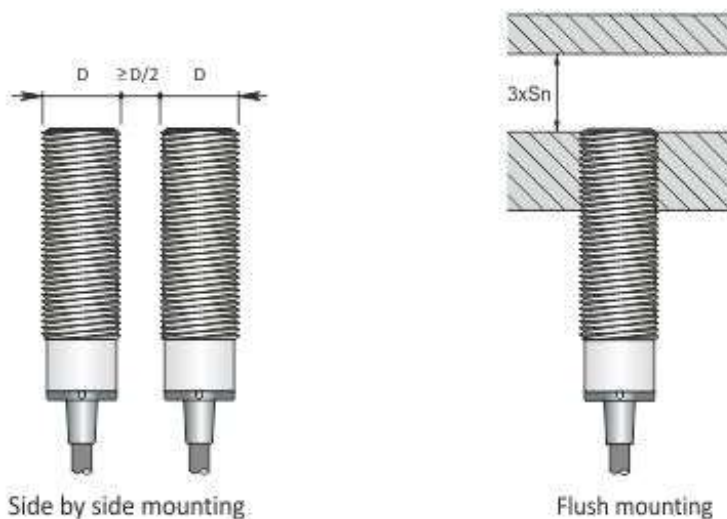
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

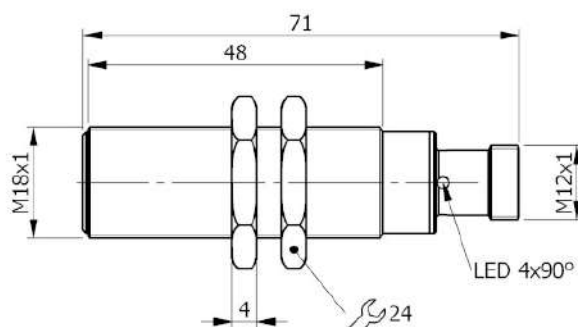
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000004** Model: **SI18-A5 NO H**



Dimension in mm

### 1. TECHNICAL CHARACTERISTICS



#### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

#### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NO  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

#### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

#### 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 ÷ +70                                |
| 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: | M18x1                                                                                  |
| Dimensions:         | [mm] M18x1 - L=72                                                                      |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth:             | [g] 70                                                                                 |

### Electrical connection

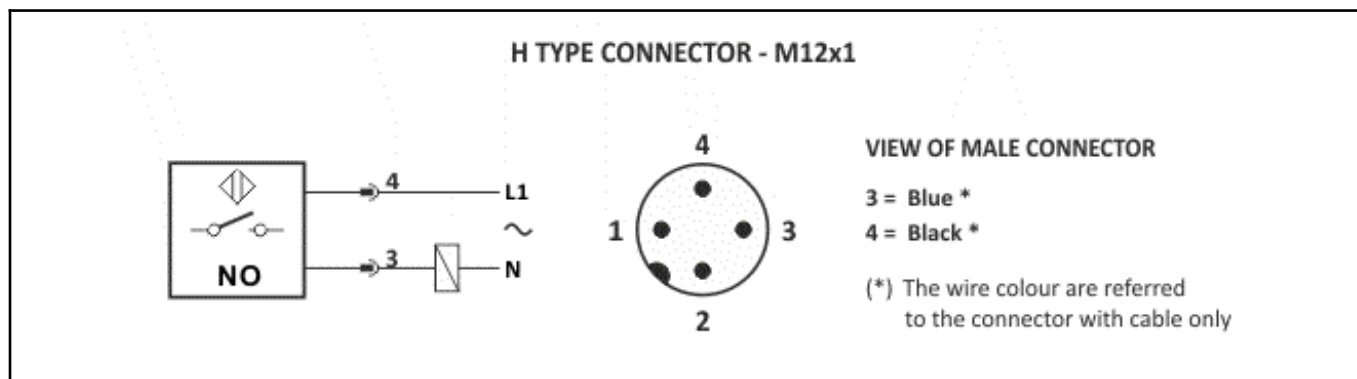
|            |                                       |
|------------|---------------------------------------|
| Connector: | H type - M12X1 - Gold plated contacts |
|------------|---------------------------------------|

### Compliance to Standards / Directives

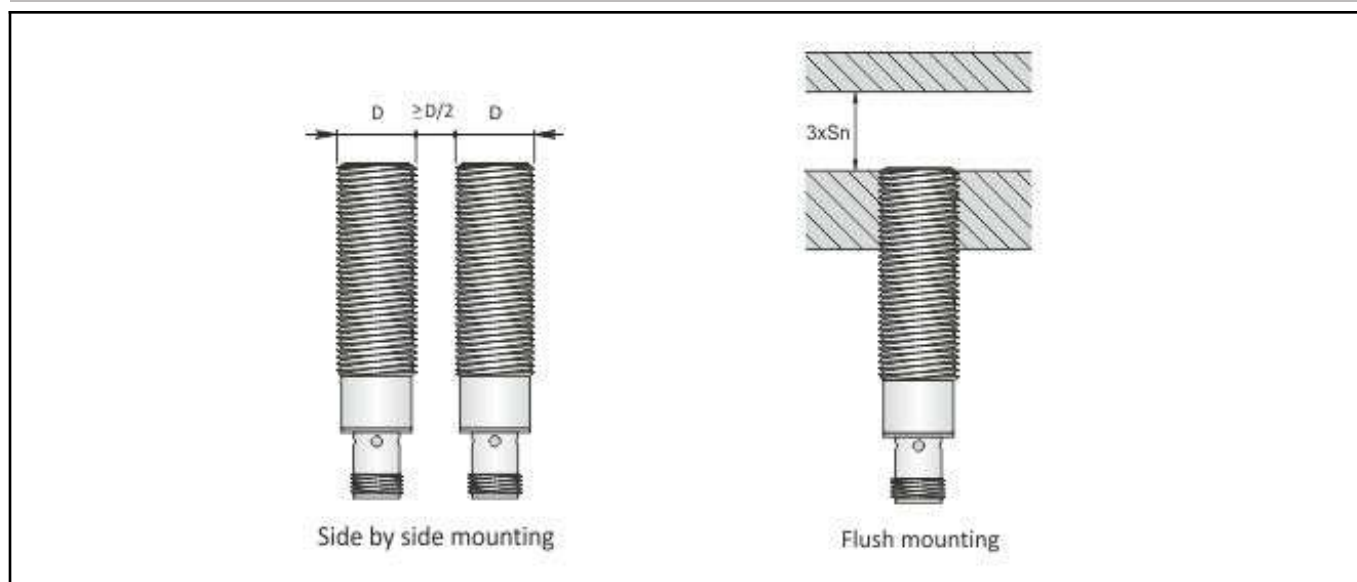
|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

## 2. NORME DI INSTALLAZIONE

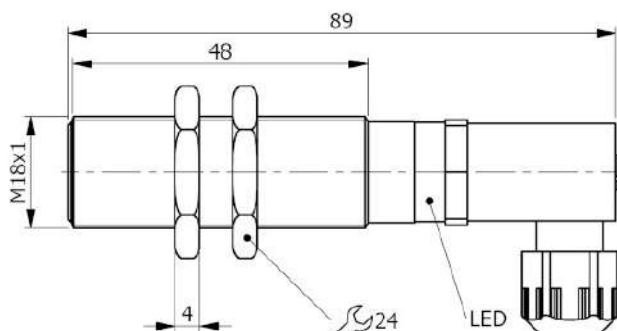
### WIRING DIAGRAM



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000005** Model: **SI18-A5 NO K**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                    |                     |
|--------------------|---------------------|
| Power supply type: | Alternating current |
| Working voltage:   | [V] 20 ÷ 250        |
| Protection class:  | III                 |

### Outputs

|                          |          |
|--------------------------|----------|
| Function:                | NO       |
| Max voltage drop:        | [V] < 6  |
| Max output current:      | [mA] 300 |
| Minimum output current:  | [mA] 5   |
| Max peak current:        | [A] 1.5  |
| Residual current:        | [mA] < 1 |
| Max switching frequency: | [Hz] 12  |

### Detection zone

|                           |               |
|---------------------------|---------------|
| Switching distance-Sn:    | [mm] 5        |
| Real sensing distance-Sr: | [mm] 5 ±10%   |
| Operative distance-So:    | [mm] 0 ÷ 4.05 |

### 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 ÷ +70 |
| IP rating:          | IP65           |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions:         | [mm] M18x1 - L=61                                                                      |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth:             | [g] 80                                                                                 |

### Electrical connection

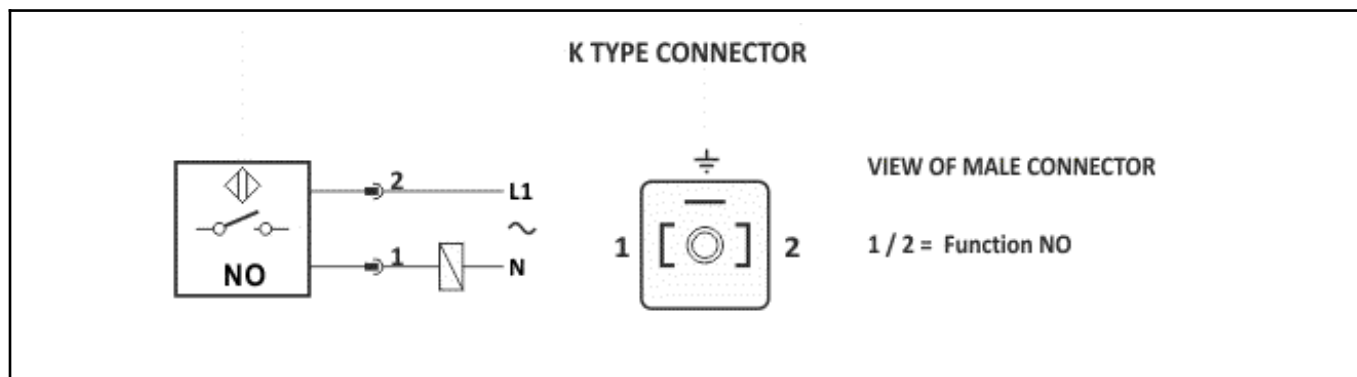
|            |                                 |
|------------|---------------------------------|
| Connector: | K Type - 3 poles - EN 17301-803 |
|------------|---------------------------------|

### Compliance to Standards / Directives

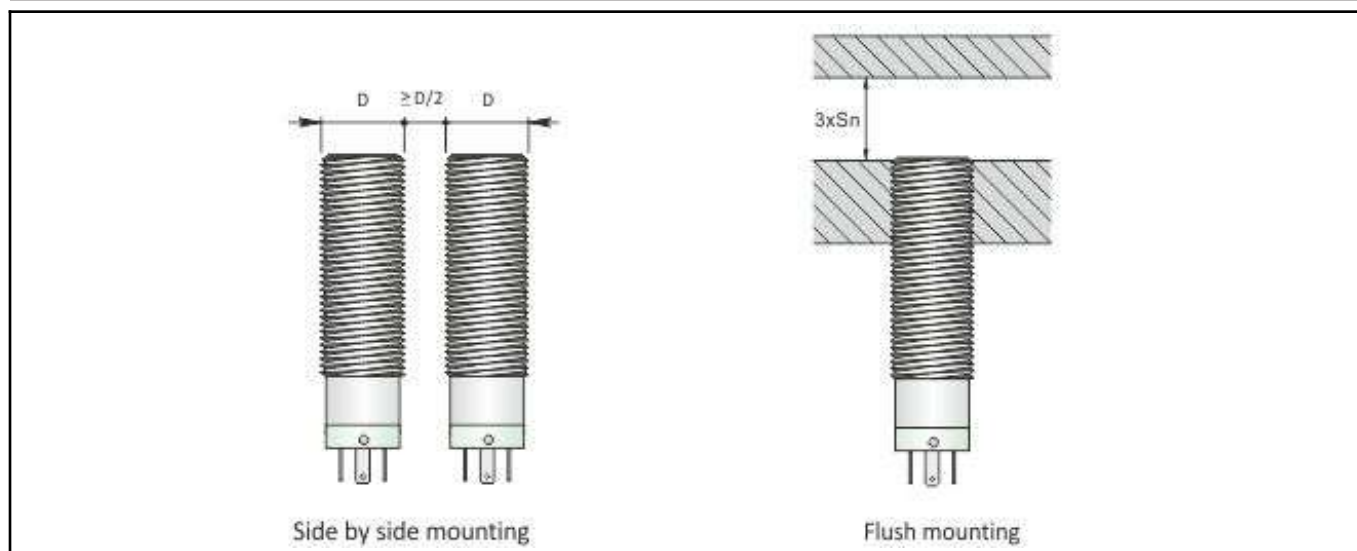
|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

## 2. NORME DI INSTALLAZIONE

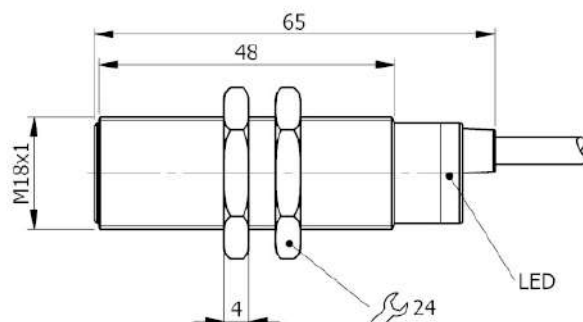
### WIRING DIAGRAM



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000155** Model: **SI18-A5 NO LC10**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NO  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=51.5                                                                         |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 360                                                                                    |

### Electrical connection

|        |                                           |
|--------|-------------------------------------------|
| Cable: | 10 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|-------------------------------------------|

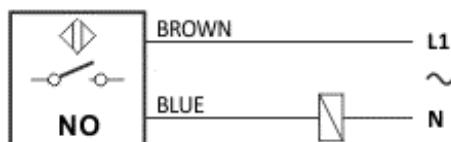
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

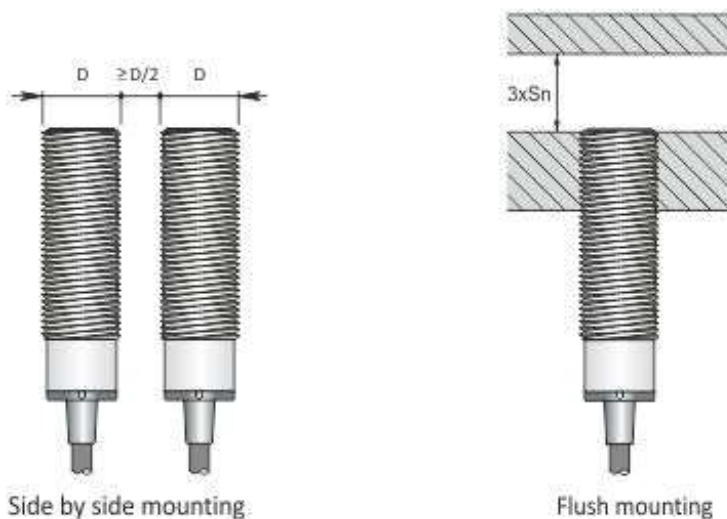
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

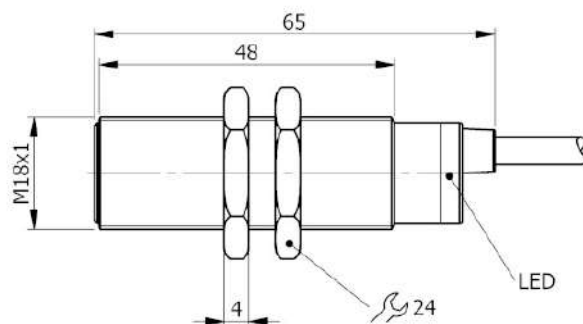
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000153** Model: **SI18-A5 NO LC5**



Dimension in mm



## 1. TECHNICAL CHARACTERISTICS

### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NO  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

### 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 ÷ +70      |
| IP rating:               | IP65-IP66-IP67 |

### Display and control elements

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

### Mechanical data

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Housing:            | Threded type                                                                           |
| Thread designation: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=51.5                                                                         |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 220                                                                                    |

### Electrical connection

|        |                                          |
|--------|------------------------------------------|
| Cable: | 5 m - PVC/PVC - 2 x 0.50 mm <sup>2</sup> |
|--------|------------------------------------------|

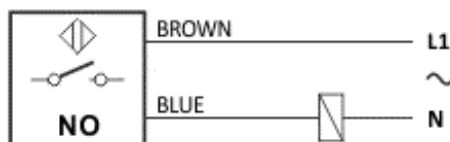
### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

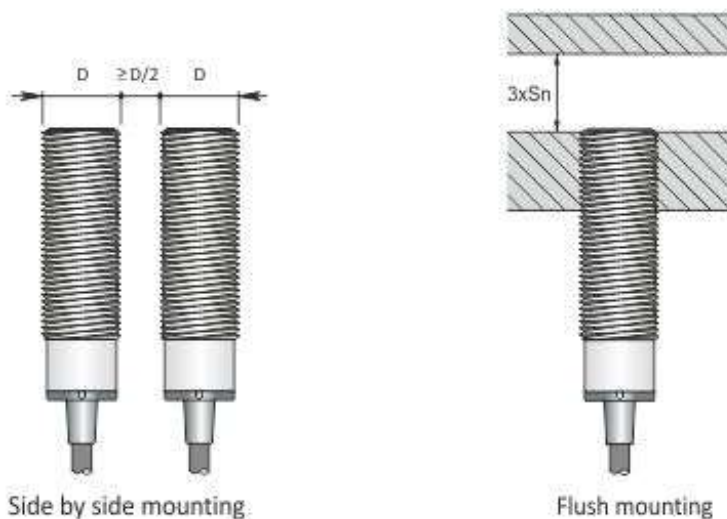
## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM

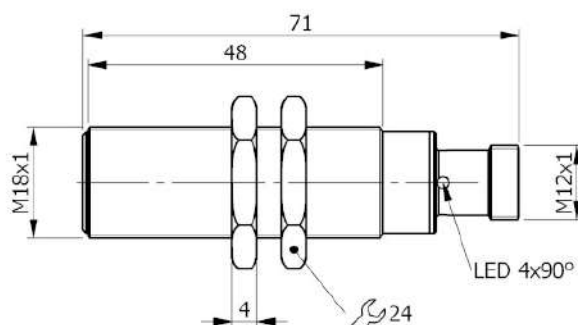
#### 2 WIRES CABLE



### INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I18000001** Model: **SI18-A5 NC H**



Dimension in mm

### 1. TECHNICAL CHARACTERISTICS



#### Electrical data

|                      |                     |
|----------------------|---------------------|
| Power supply type:   | Alternating current |
| Working voltage: [V] | 20 ÷ 250            |
| Protection class:    | III                 |

#### Outputs

|                               |     |
|-------------------------------|-----|
| Function:                     | NC  |
| Max voltage drop: [V]         | < 6 |
| Max output current: [mA]      | 300 |
| Minimum output current: [mA]  | 5   |
| Max peak current: [A]         | 1.5 |
| Residual current: [mA]        | < 1 |
| Max switching frequency: [Hz] | 12  |

#### Detection zone

|                                |          |
|--------------------------------|----------|
| Switching distance-Sn: [mm]    | 5        |
| Real sensing distance-Sr: [mm] | 5 ±10%   |
| Operative distance-So: [mm]    | 0 ÷ 4.05 |

#### 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 ÷ +70                                |
| 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: | M18x1                                                                                  |
| Dimensions: [mm]    | M18x1 - L=72                                                                           |
| Materials:          | Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass |
| Mounting:           | Embeddable                                                                             |
| Weigth: [g]         | 70                                                                                     |

### Electrical connection

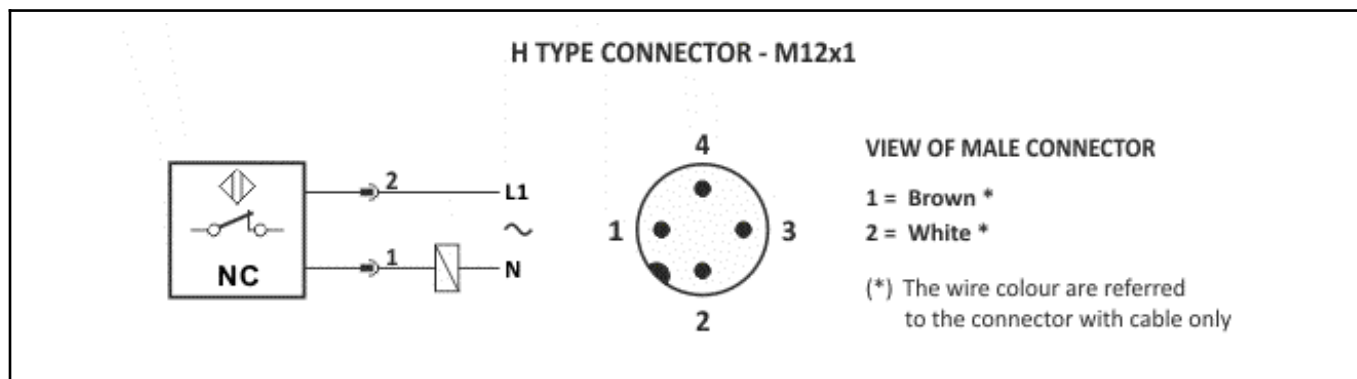
|            |                                       |
|------------|---------------------------------------|
| Connector: | H type - M12X1 - Gold plated contacts |
|------------|---------------------------------------|

### Compliance to Standards / Directives

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Directives compliance: | 2014/30/EU -Electromagnetic compatibility directive (EMC)<br>2014/35/UE -Low voltage directive (LVD) |
| Standards compliance:  | EN60947-5-2 - Product standard                                                                       |

## 2. NORME DI INSTALLAZIONE

### WIRING DIAGRAM



### INSTRUCTIONS FOR CORRECT INSTALLATION

