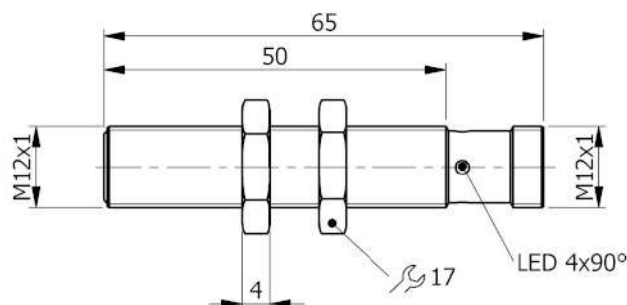


Part number: **I12000002** Model: **SI12-A2 NC H**



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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=66
Materials:	Housing: Nickel-plated brass - Sensing area: POM bluee - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	40

Electrical connection

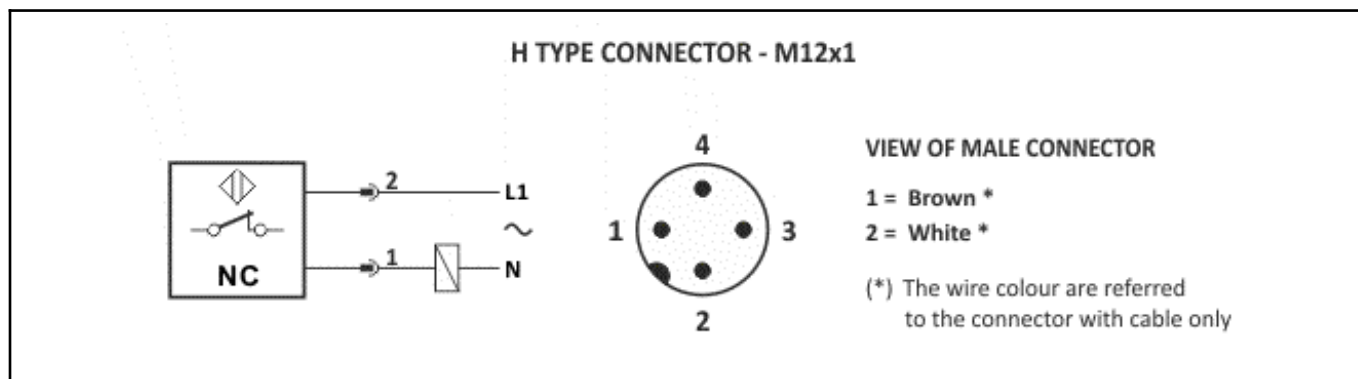
Connector:	H type - M12X1 - Gold plated contacts
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Compliance to Standards / Directives

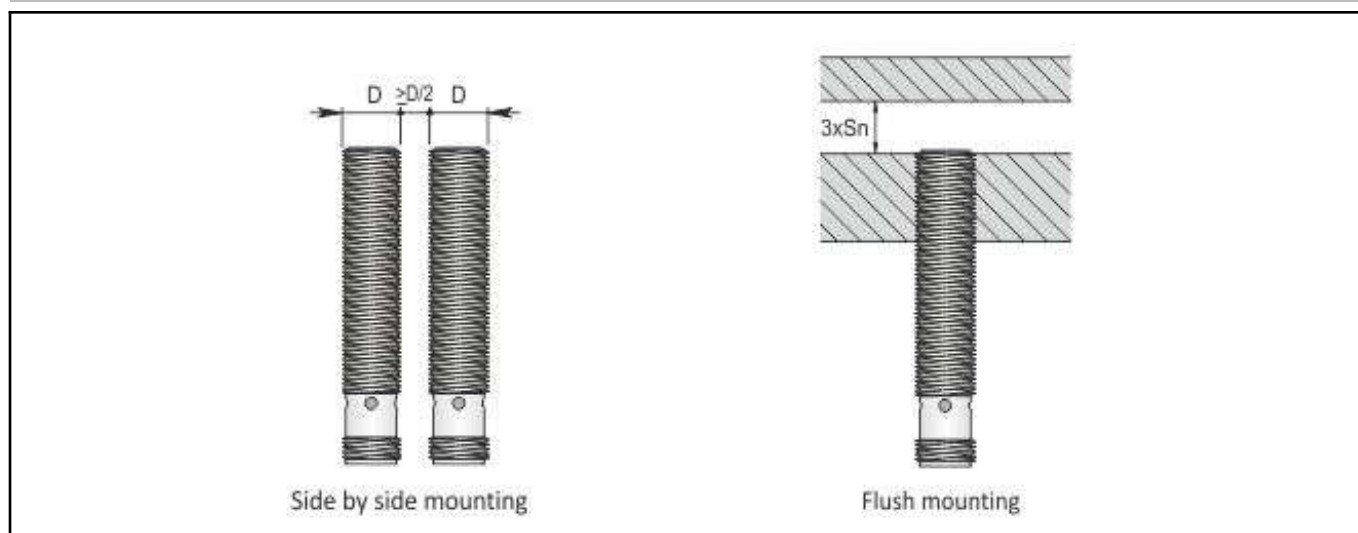
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

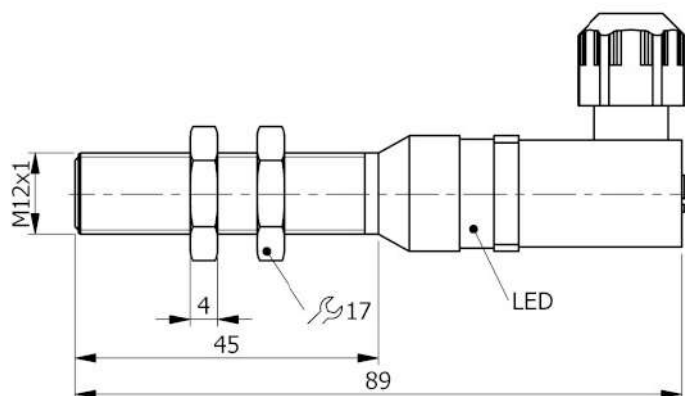
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000003** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=62
Materials:	Housing: Nickel-plated brass - Sensing area: POM bluee - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	55

Electrical connection

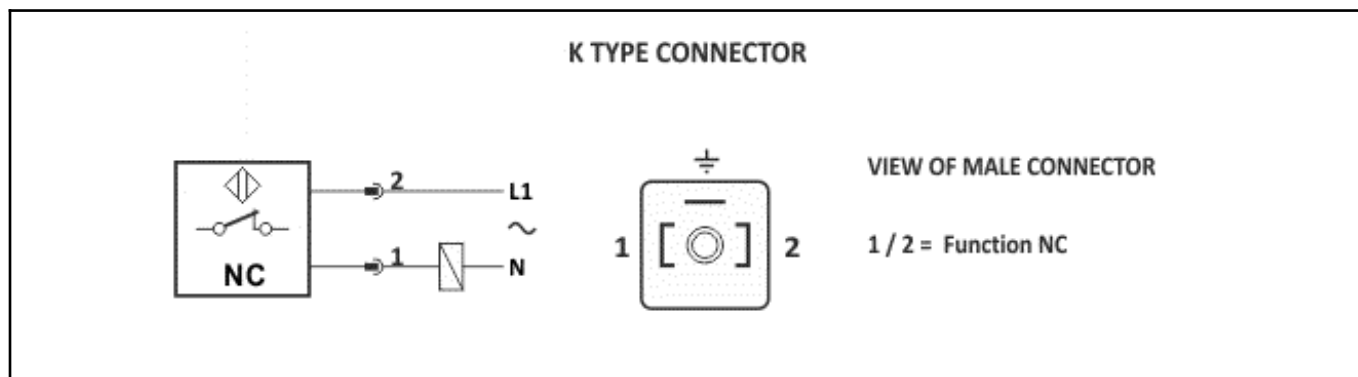
Connector:	K Type - 3 poles - EN 17301-803
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Compliance to Standards / Directives

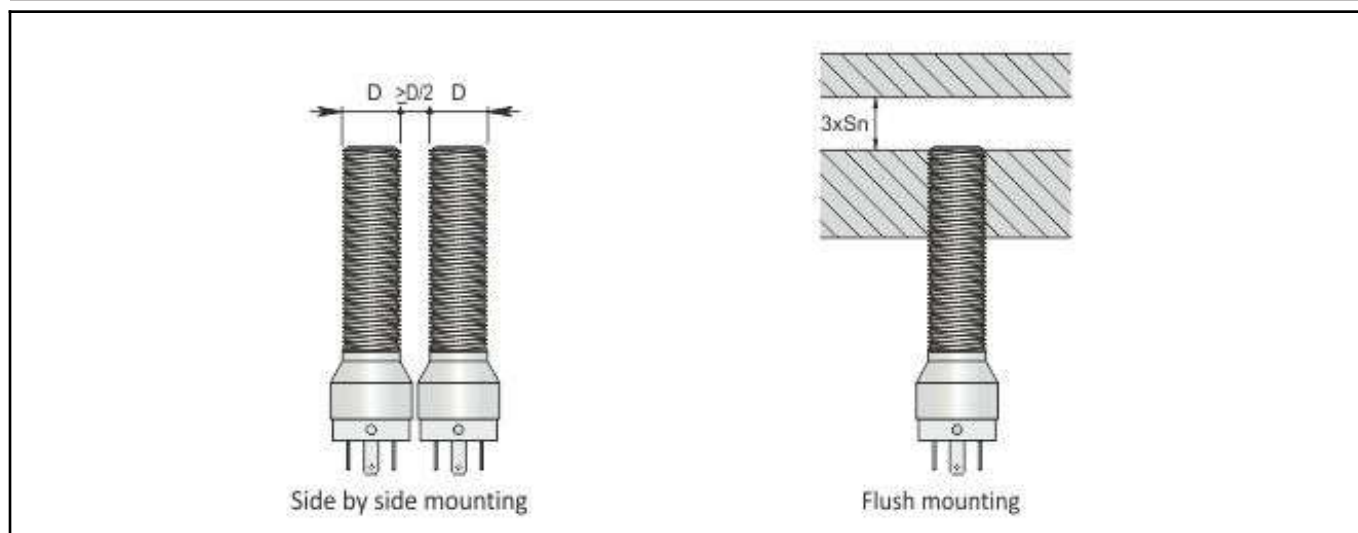
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

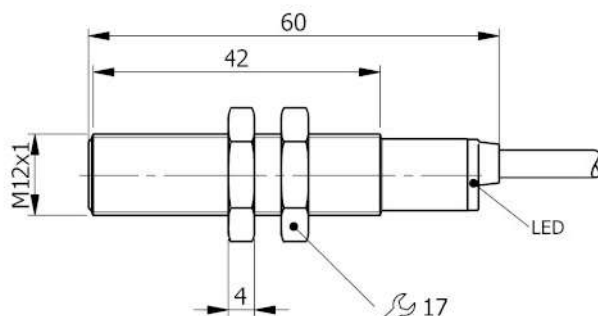
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000171** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	260

Electrical connection

Cable:	10 m - PVC/PVC - 2 x 0.25 mm ²
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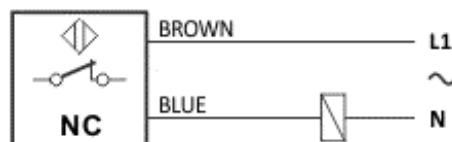
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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

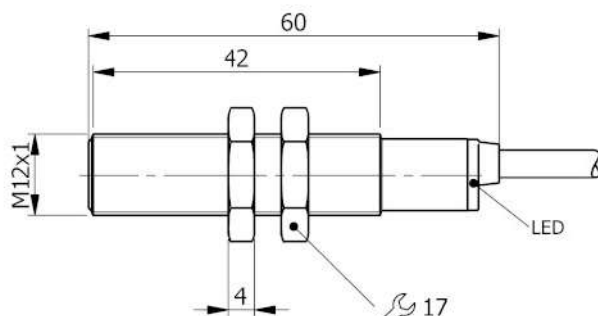


Side by side mounting



Flush mounting

Part number: **I12000169** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	150

Electrical connection

Cable:	5 m - PVC/PVC - 2 x 0.25 mm ²
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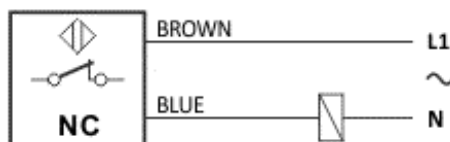
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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

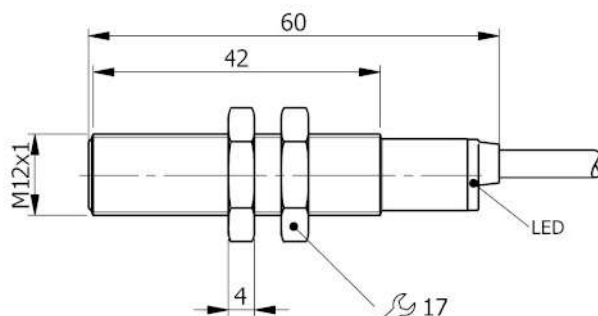


Side by side mounting



Flush mounting

Part number: **I12000004** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	80

Electrical connection

Cable:	2 m - PVC/PVC - 2 x 0.25 mm ²
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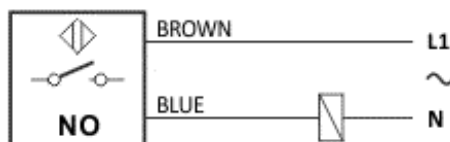
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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

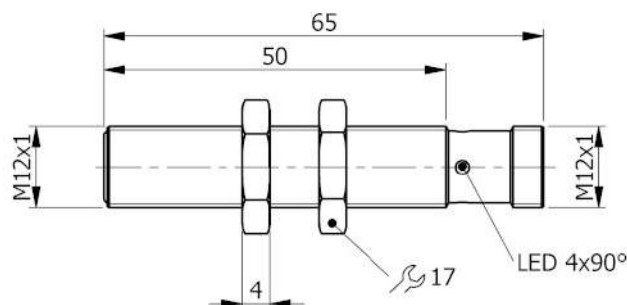


Side by side mounting



Flush mounting

Part number: **I12000005** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=66
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	40

Electrical connection

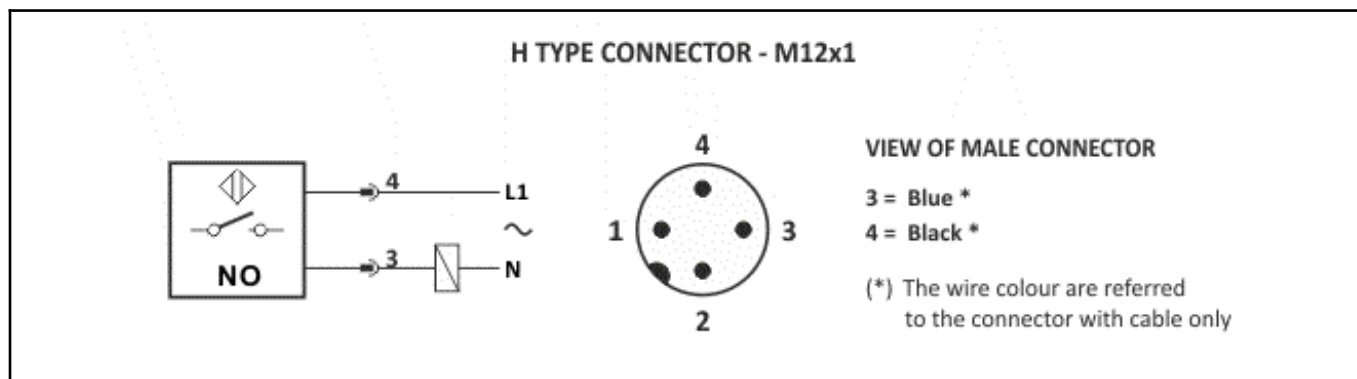
Connector:	H type - M12X1 - Gold plated contacts
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Compliance to Standards / Directives

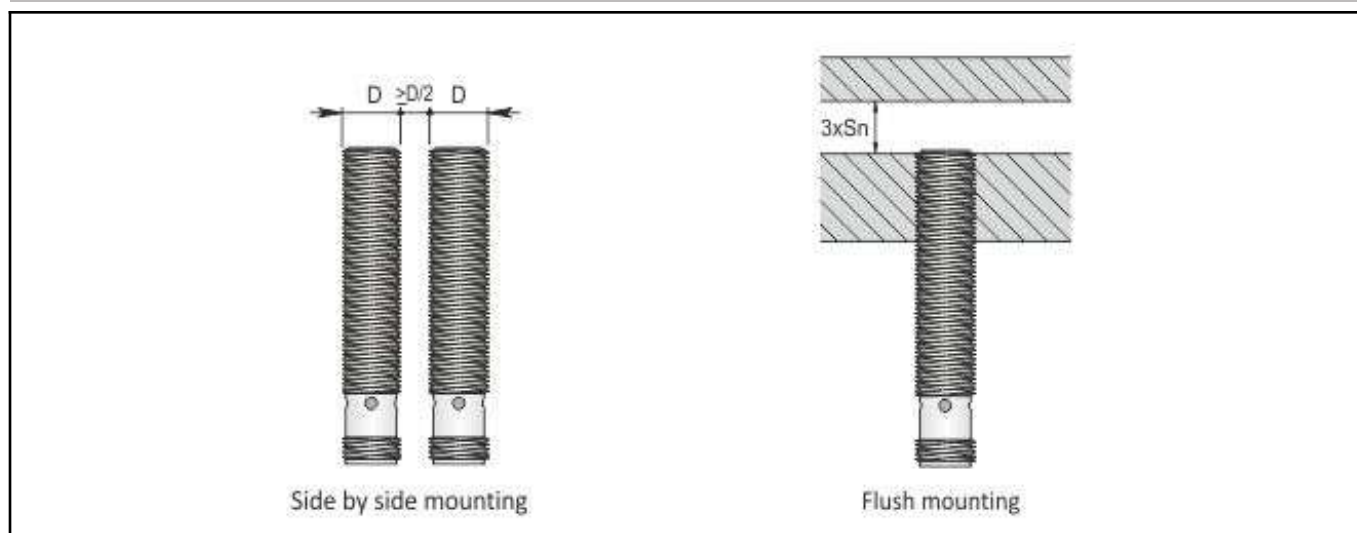
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

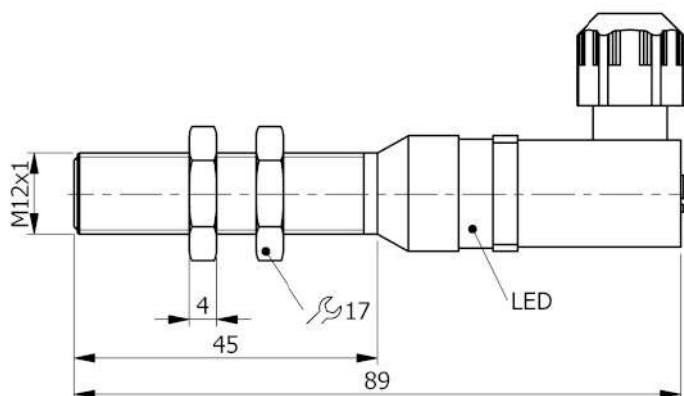
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000006** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=62
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	55

Electrical connection

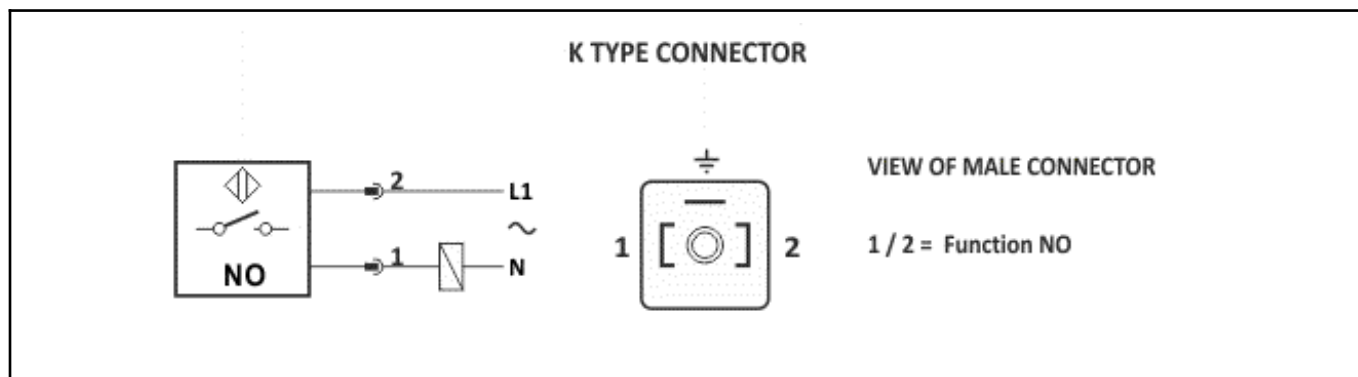
Connector:	K Type - 3 poles - EN 17301-803
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Compliance to Standards / Directives

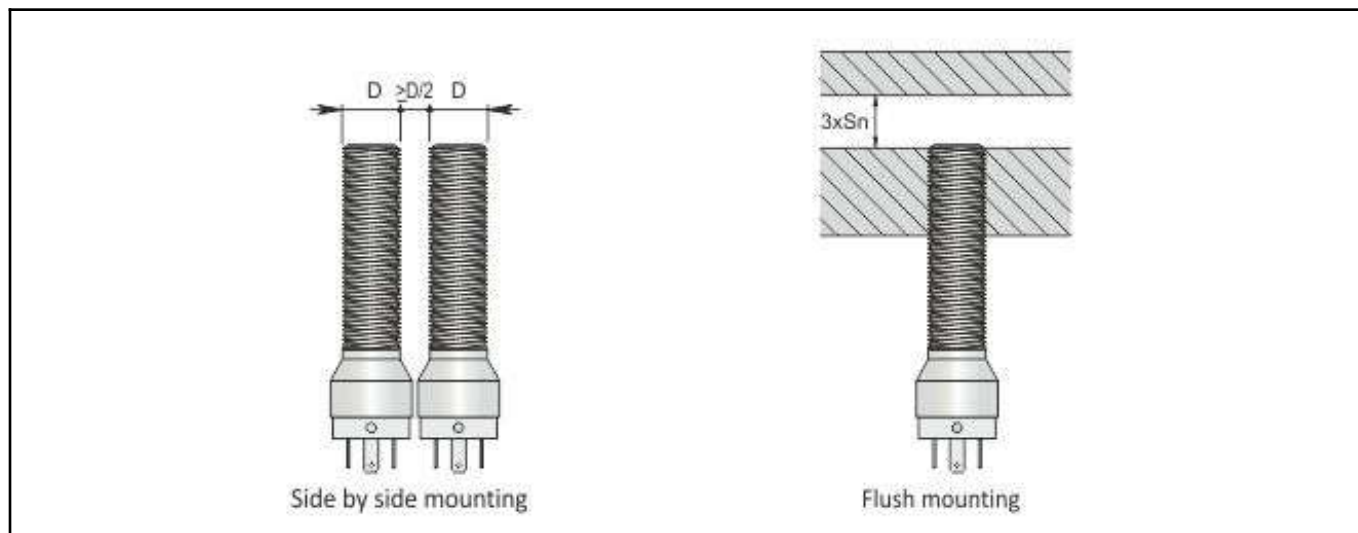
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

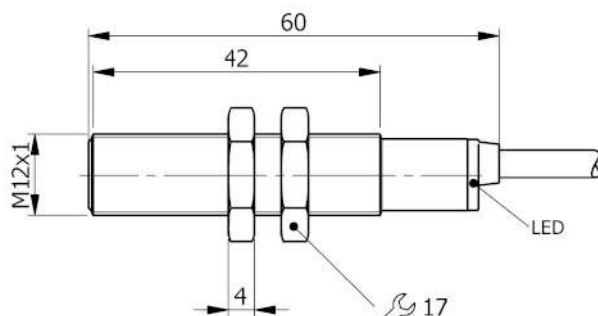
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000175** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	260

Electrical connection

Cable:	10 m - PVC/PVC - 2 x 0.25 mm ²
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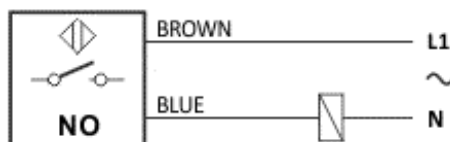
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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

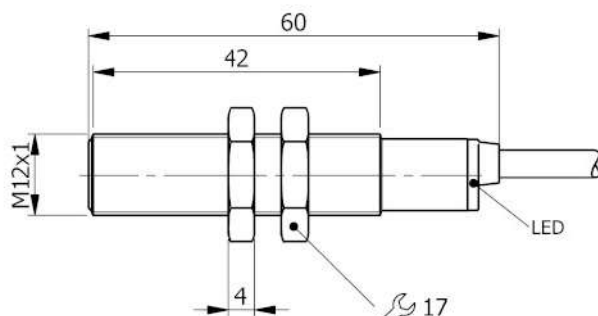


Side by side mounting



Flush mounting

Part number: **I12000173** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	150

Electrical connection

Cable:	5 m - PVC/PVC - 2 x 0.25 mm ²
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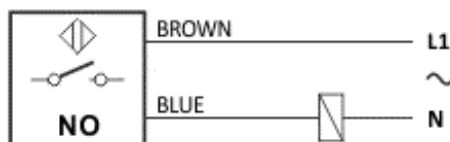
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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

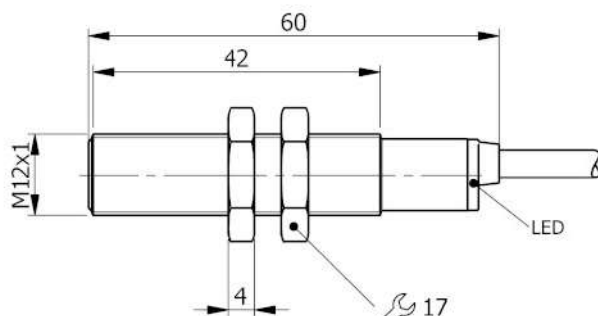


Side by side mounting



Flush mounting

Part number: **I12000001** Model: **SI12-A2 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] 2
Real sensing distance-Sr:	[mm] 2 ±10%
Operative distance-So:	[mm] 0 ÷ 1.62

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
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Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=60
Materials:	Housing: Nickel-plated brass - Sensing area: POM bluee - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	80

Electrical connection

Cable:	2 m - PVC/PVC - 2 x 0.25 mm ²
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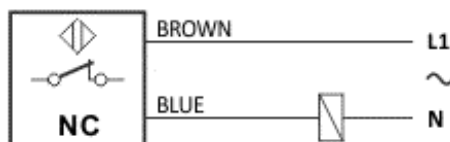
Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 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



Side by side mounting



Flush mounting