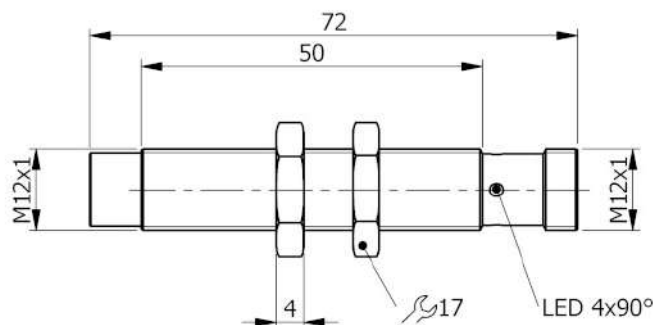


Part number: **I12000008** Model: **SI12-AE4 NC H**



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]	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 ÷ +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:	M12x1
Dimensions: [mm]	M12x1 - L=72.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	40

Electrical connection

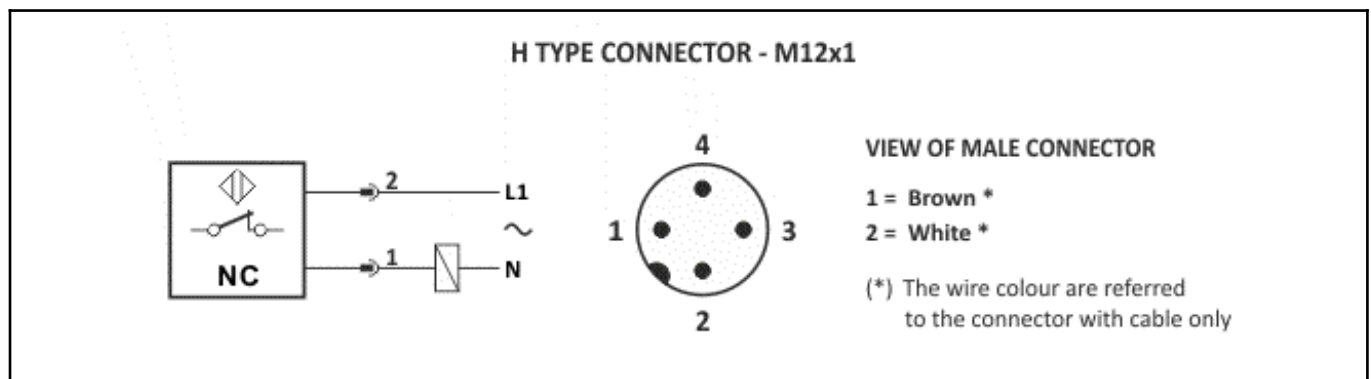
Connector:	H type - M12X1 - Gold plated contacts
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Compliance to Standards / Directives

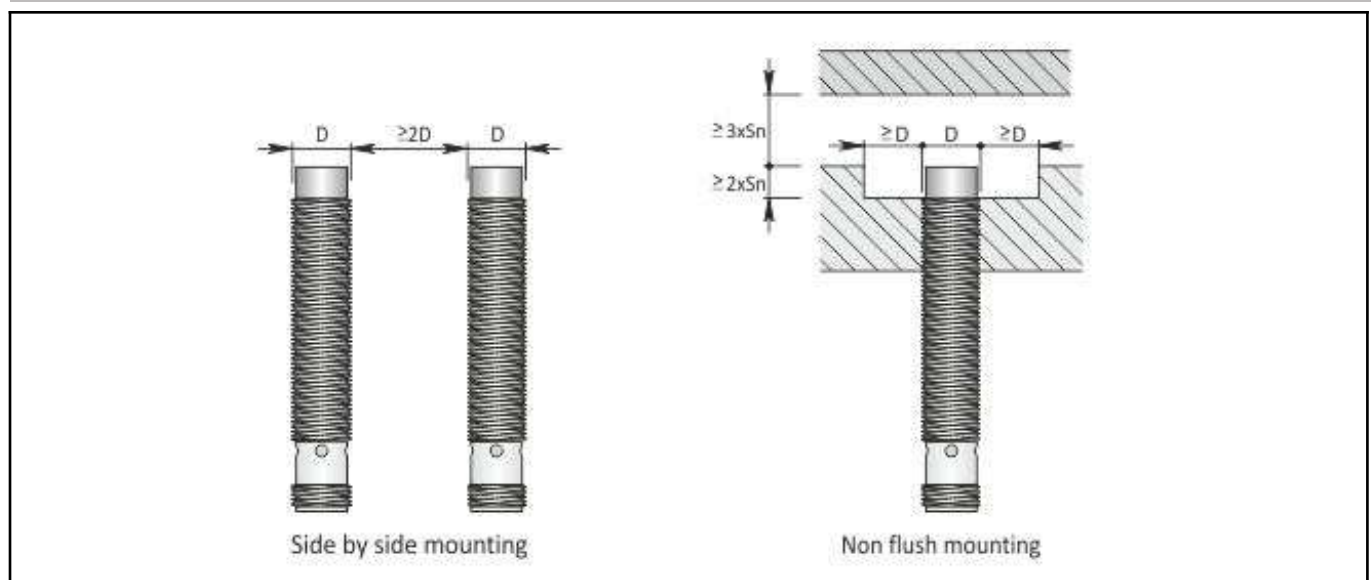
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

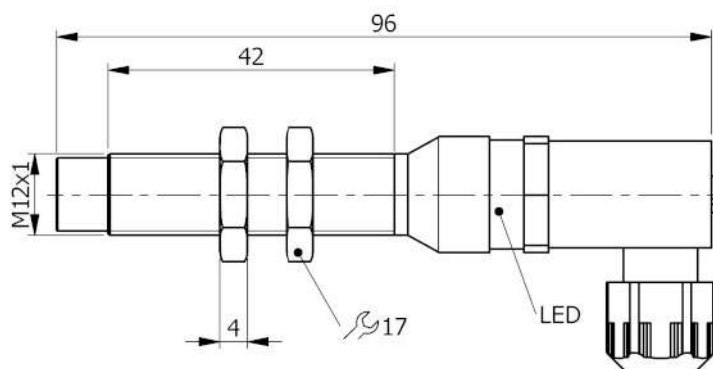
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000009** Model: **SI12-AE4 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] 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 ÷ +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=68.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	55

Electrical connection

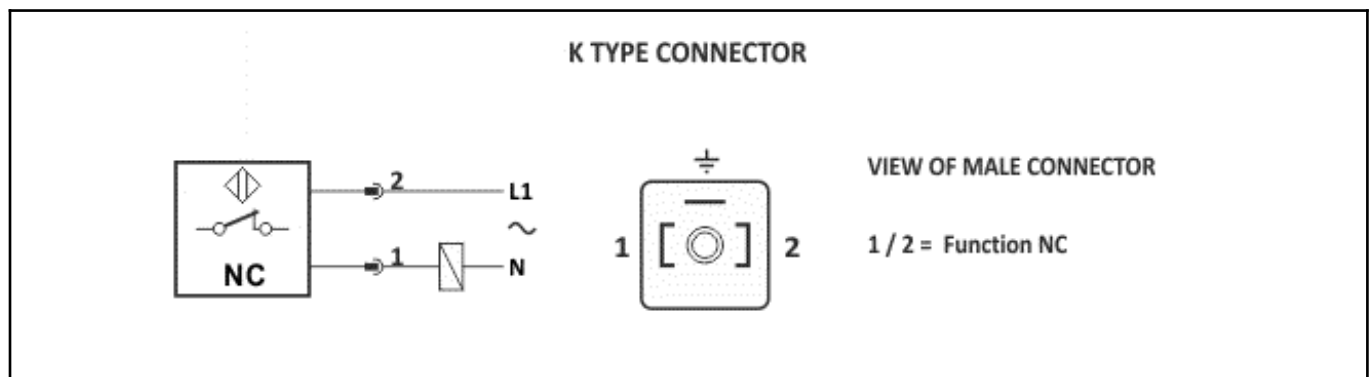
Connector:	K Type - 3 poles - EN 17301-803
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Compliance to Standards / Directives

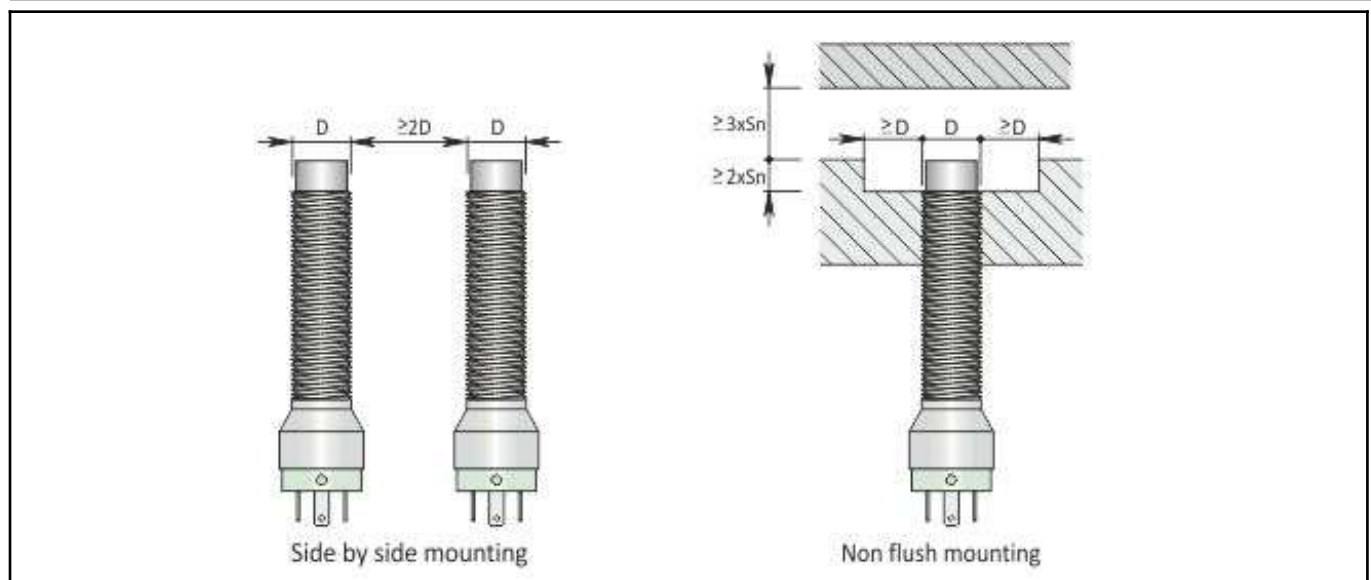
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

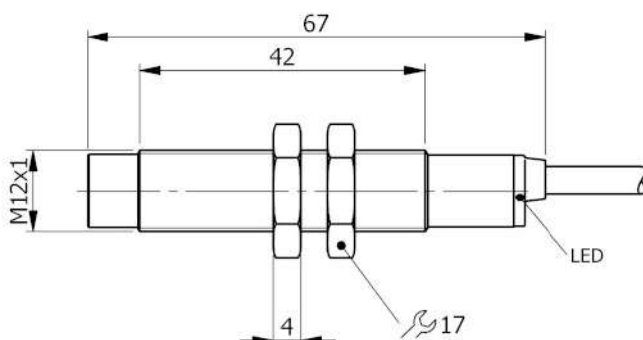
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000179** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	260

Electrical connection

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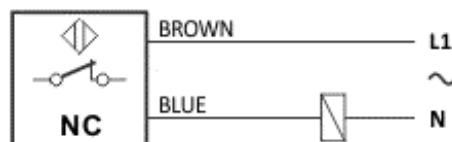
Compliance to Standards / Directives

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

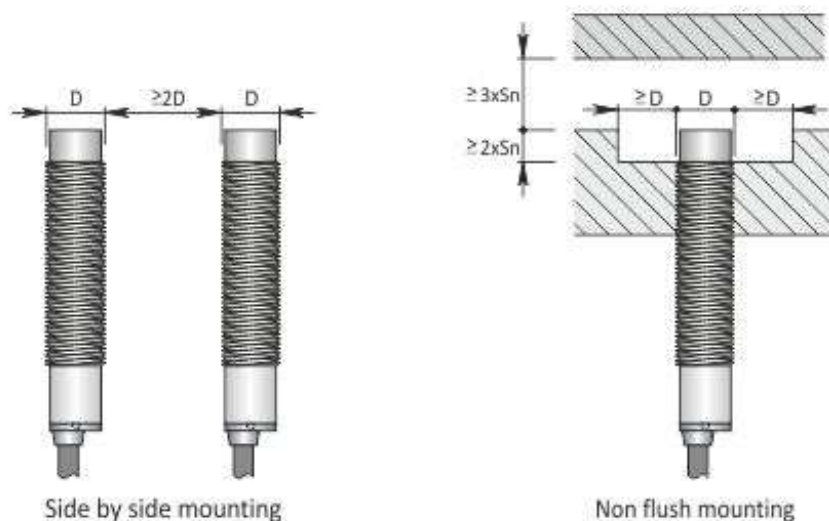
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

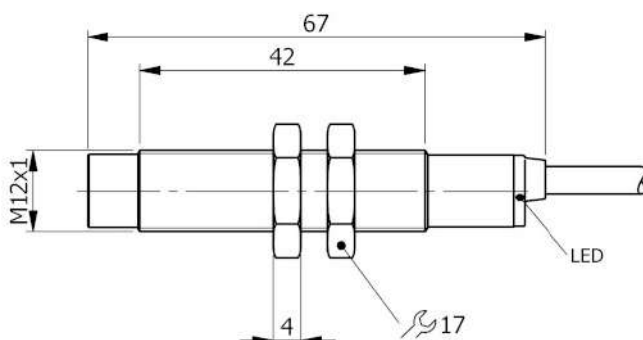
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000177** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	150

Electrical connection

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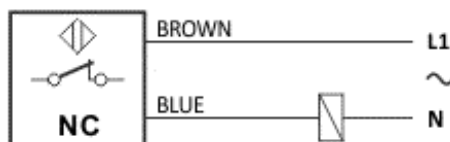
Compliance to Standards / Directives

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

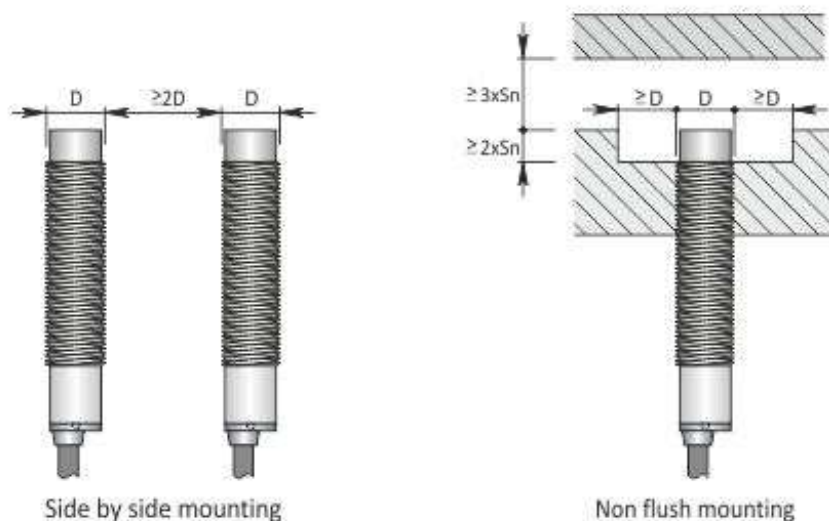
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

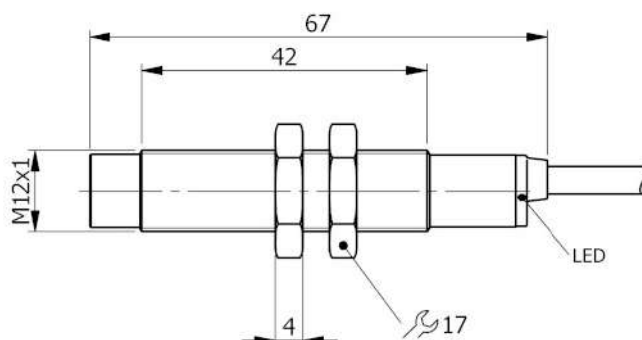
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000010** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	80

Electrical connection

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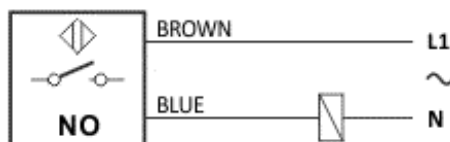
Compliance to Standards / Directives

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

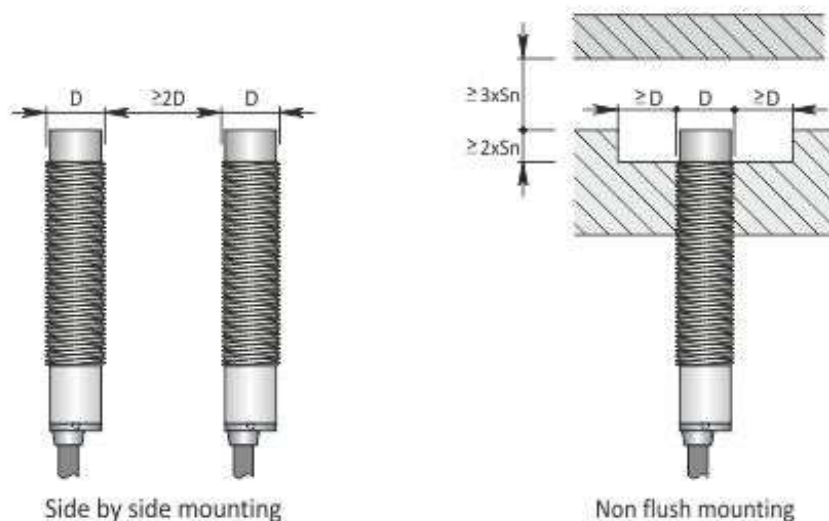
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

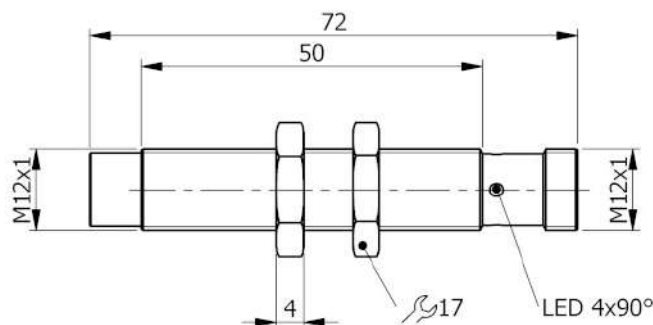
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000011** Model: **SI12-AE4 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] 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 ÷ +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=72.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	40

Electrical connection

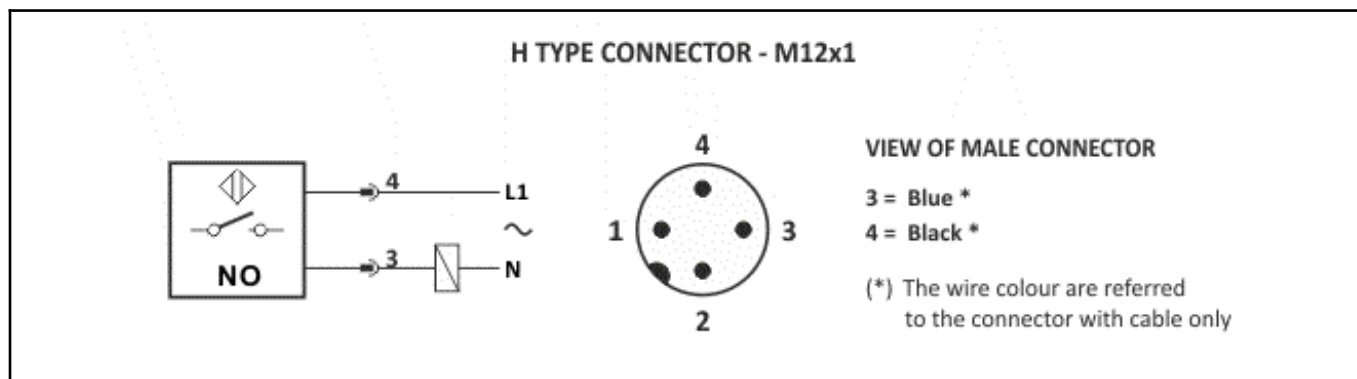
Connector:	H type - M12X1 - Gold plated contacts
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Compliance to Standards / Directives

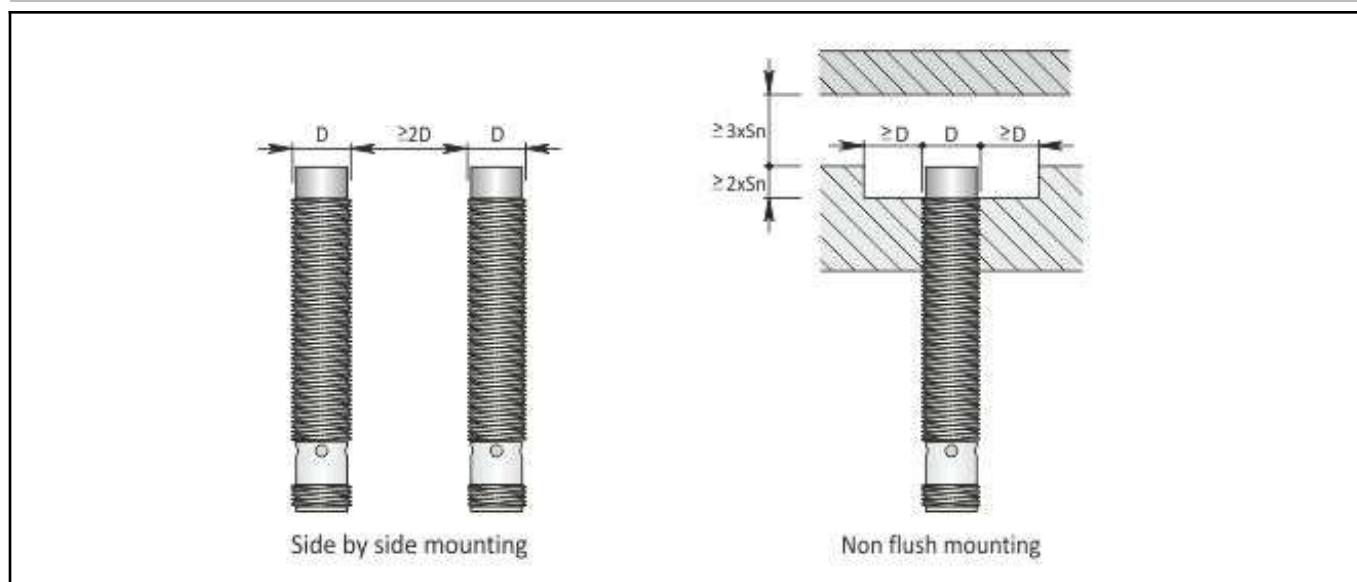
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

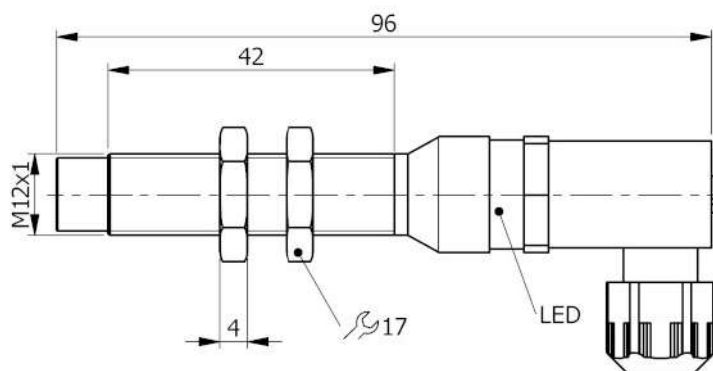
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000012** Model: **SI12-AE4 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] 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 ÷ +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=68.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	55

Electrical connection

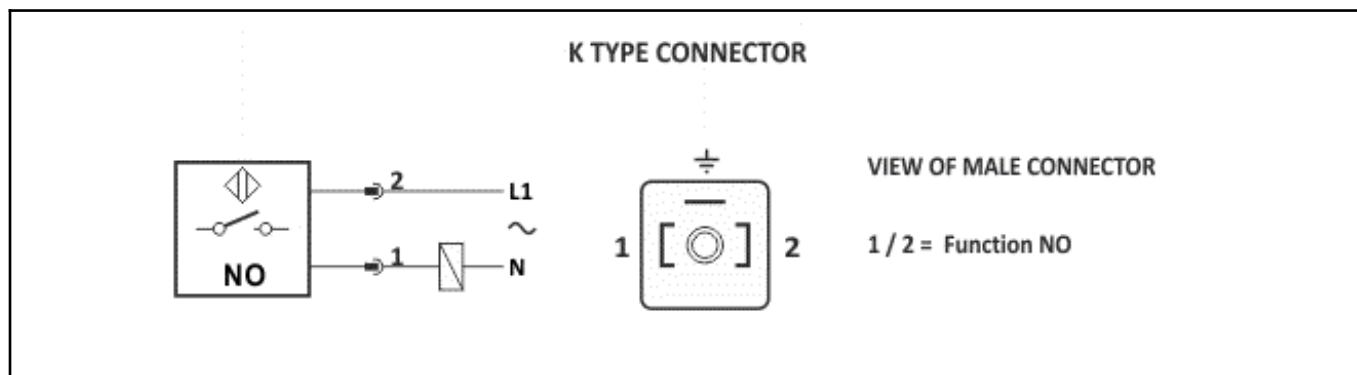
Connector:	K Type - 3 poles - EN 17301-803
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Compliance to Standards / Directives

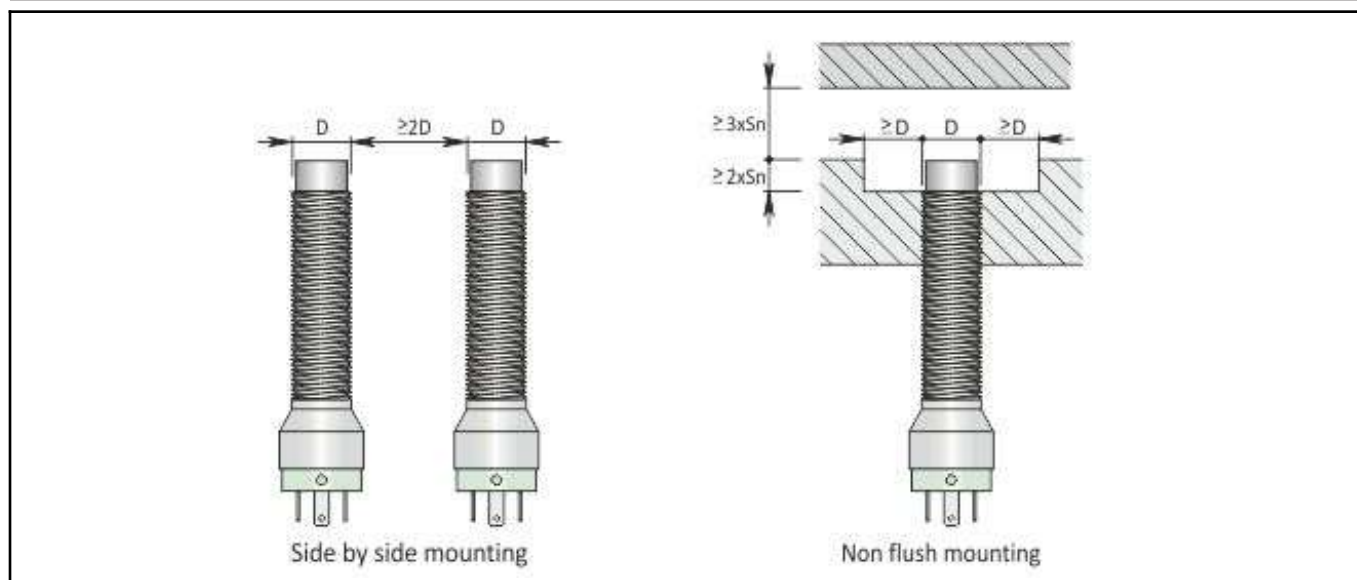
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:	EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

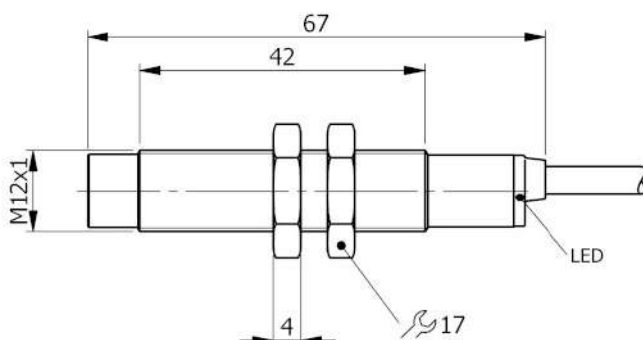
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000183** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	260

Electrical connection

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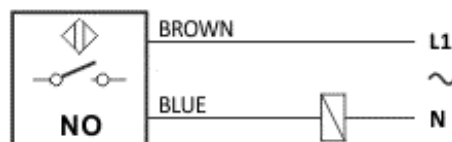
Compliance to Standards / Directives

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

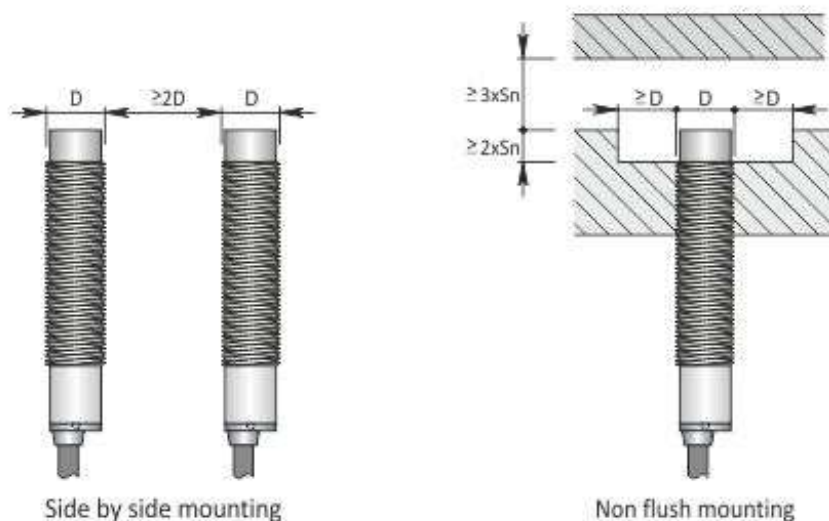
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

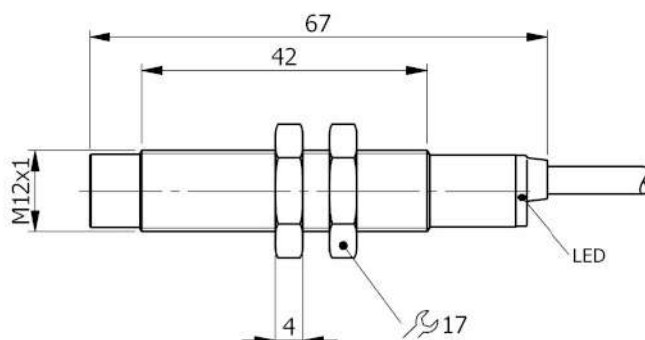
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000181** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	150

Electrical connection

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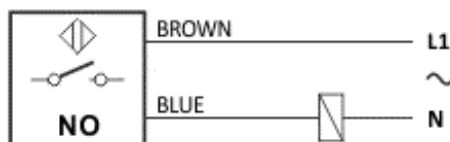
Compliance to Standards / Directives

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

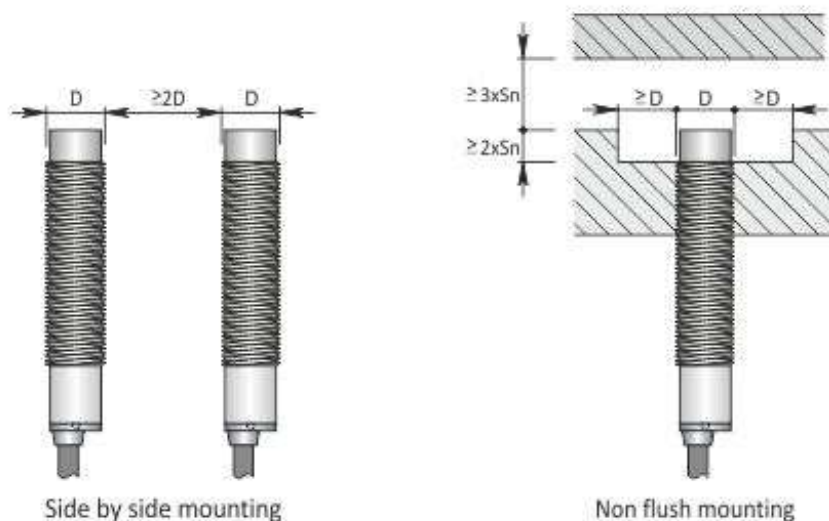
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

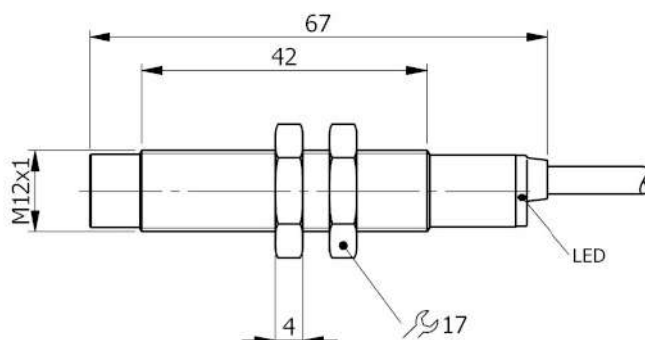
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION



Part number: **I12000007** Model: **SI12-AE4 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] 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 ÷ +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=67.5
Materials:	Housing: Nickel-plated brass - Sensing area: POM blue - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	80

Electrical connection

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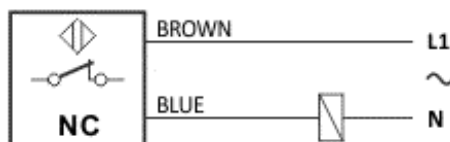
Compliance to Standards / Directives

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

