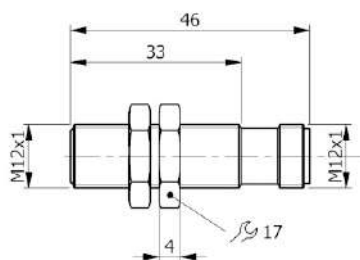


Part number: **I12000156** Model: **SI12-N2 H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On <= 1 mA - Off >= 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Residual current: [mA]	< 1 mA
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67 (depending on connector)

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=45
Materials:	Housing: Nickel-plated brass - Sensing area: POM red - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weigth: [g]	30



POSITION SENSORS

Inductive Sensors

Electrical connection

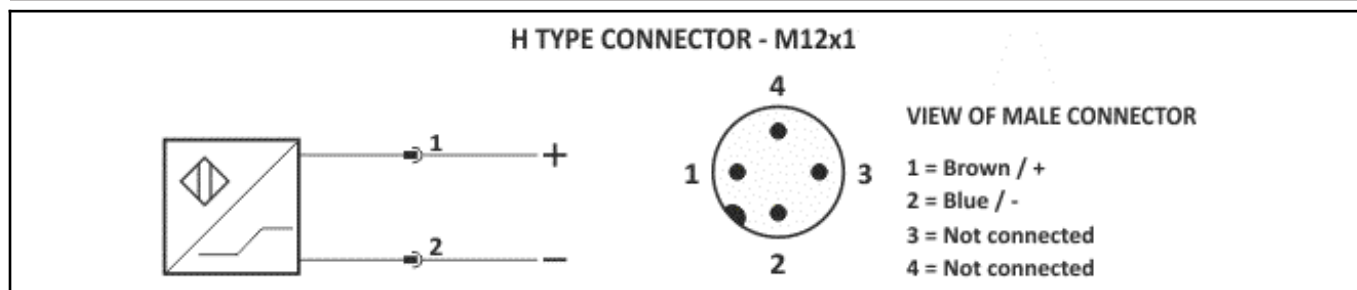
Connector:	H type - M12X1 - Gold plated contacts
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Compliance to Standards / Directives

Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

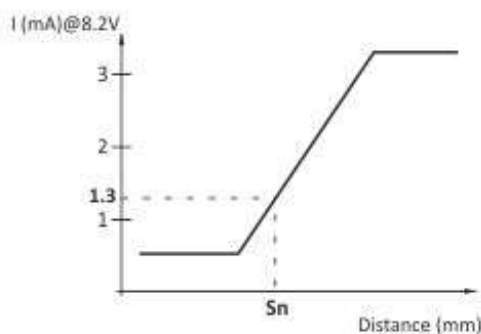
WIRING DIAGRAM



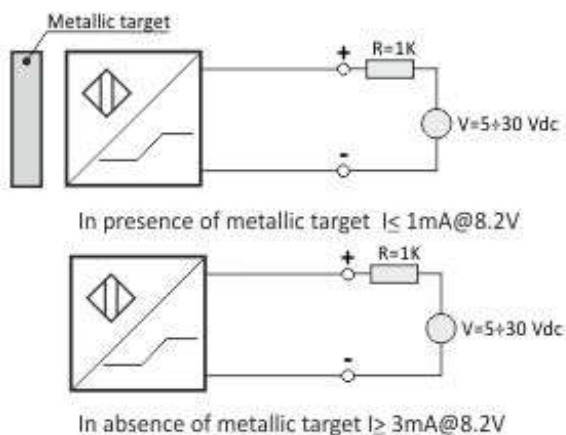
INSTRUCTIONS FOR CORRECT INSTALLATION



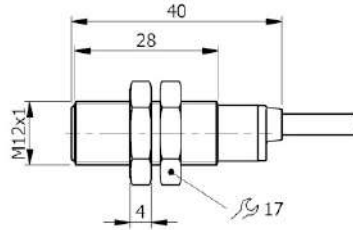
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000432** Model: **SI12-N2 LC10**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On ≤ 1 mA - Off ≥ 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=41
Materials:	Housing: Nickel-plated brass - Sensing area: POM red - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weighth: [g]	250

Electrical connection

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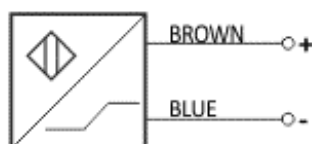
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

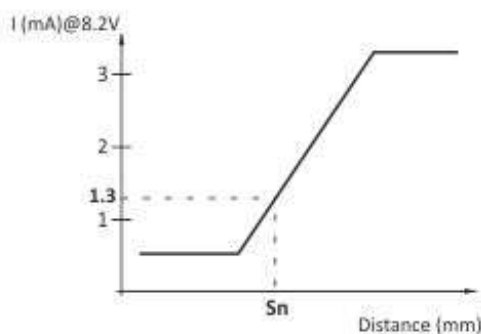


Side by side mounting

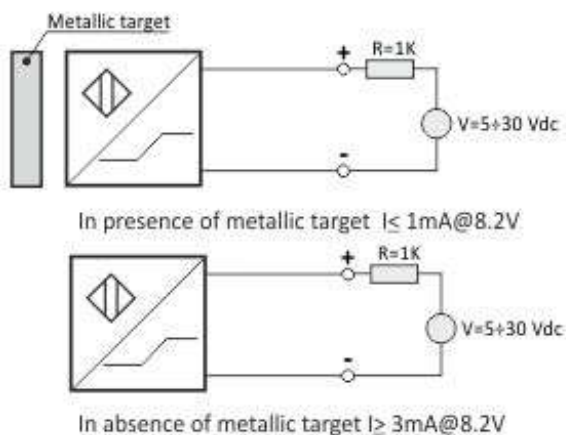


Flush mounting

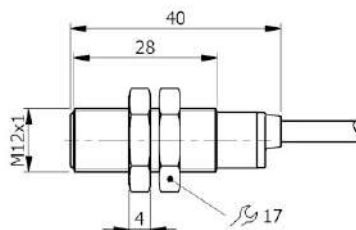
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000382** Model: **SI12-N2 LC5**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On ≤ 1 mA - Off ≥ 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=41
Materials:	Housing: Nickel-plated brass - Sensing area: POM red - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weighth: [g]	140

Electrical connection

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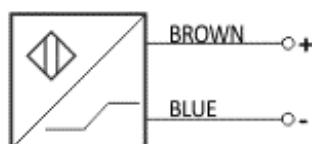
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

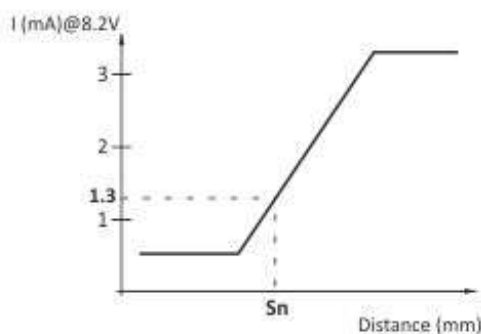


Side by side mounting

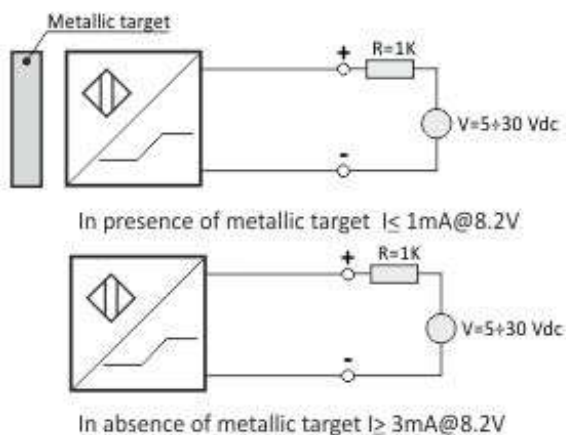


Flush mounting

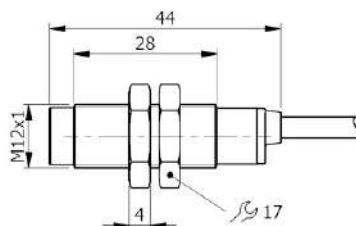
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000161** Model: **SI12-NE4**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On <= 1 mA - Off >= 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Residual current: [mA]	< 1 mA
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=45
Materials:	Housing: Nickel-plated brass - Sensing area: PC red - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weighth: [g]	70

Electrical connection

Cable:	3 m - PVC/PVC - 2 x 0.25 mm ²
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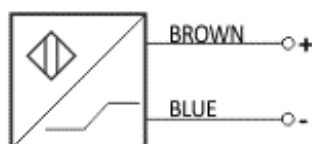
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

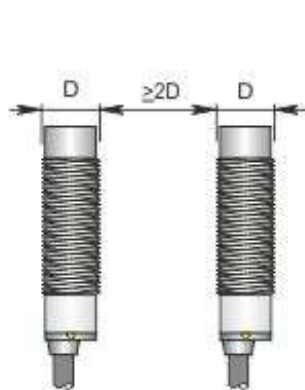
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

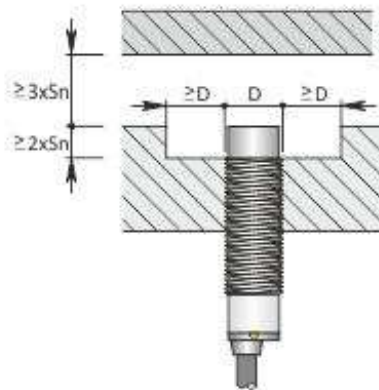
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

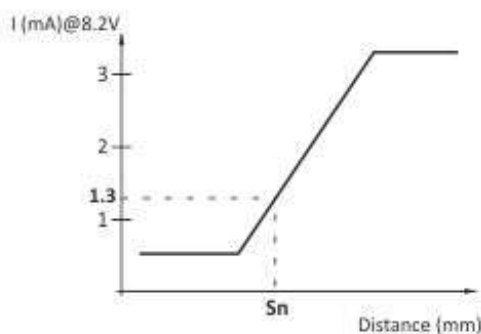


Side by side mounting

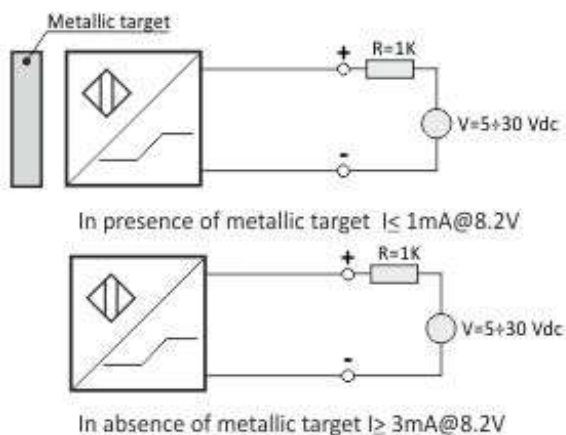


Non flush mounting

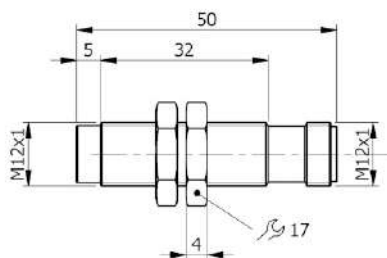
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000162** Model: **SI12-NE4 H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On <= 1 mA - Off >= 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Residual current: [mA]	< 1 mA
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67 (depending on connector)

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=49
Materials:	Housing: Nickel-plated brass - Sensing area: PC red - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weighth: [g]	30

Electrical connection

Connector:

H type - M12X1 - Gold plated contacts

Compliance to Standards / Directives

Directives compliance:

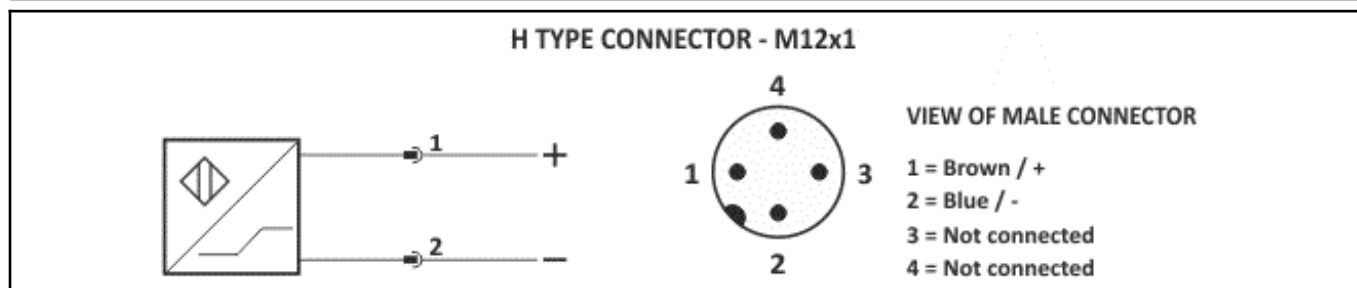
2014/30/EU - Electromagnetic compatibility directive (EMC)

Standards compliance:

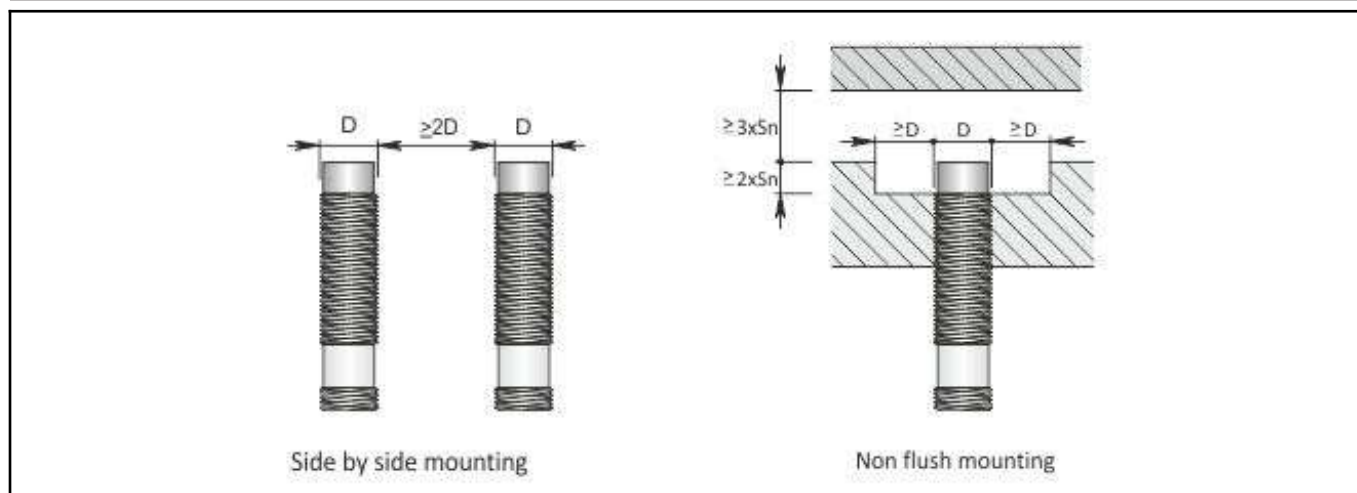
EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

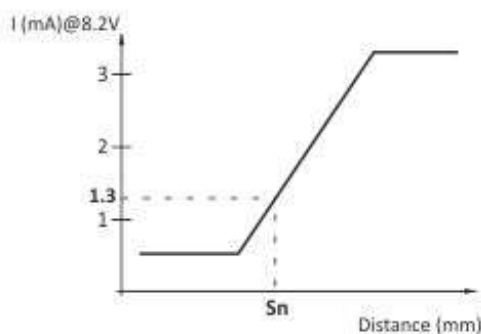
WIRING DIAGRAM



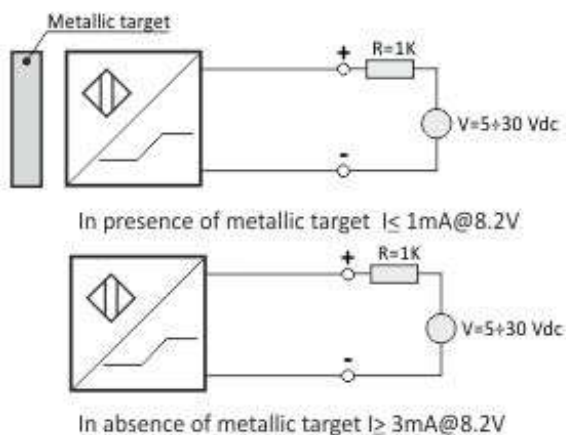
INSTRUCTIONS FOR CORRECT INSTALLATION



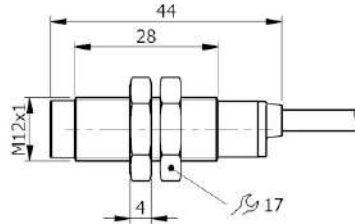
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000428** Model: **SI12-NE4 LC10**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On ≤ 1 mA - Off ≥ 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=45
Materials:	Housing: Nickel-plated brass - Sensing area: PC red - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weigth: [g]	250

Electrical connection

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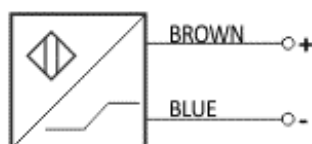
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

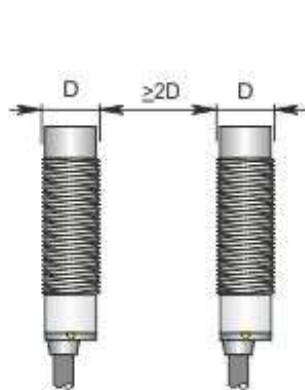
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

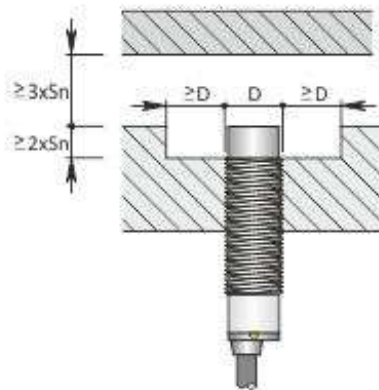
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

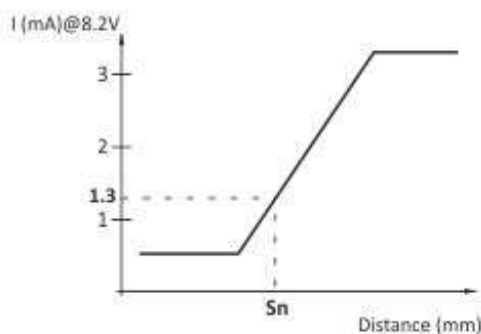


Side by side mounting

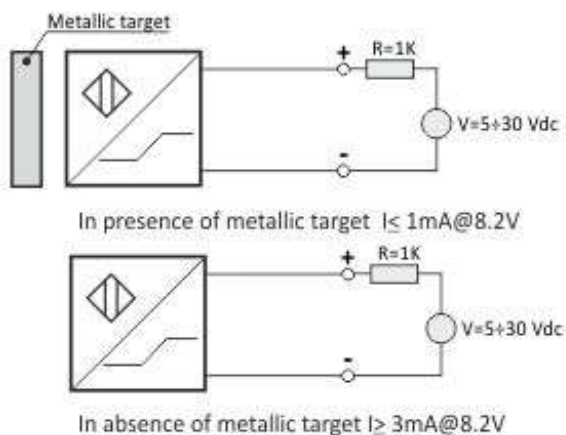


Non flush mounting

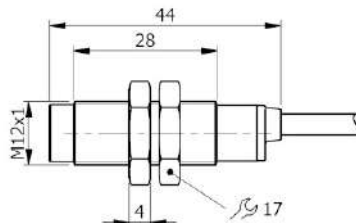
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000333** Model: **SI12-NE4 LC5**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On ≤ 1 mA - Off ≥ 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Residual current: [mA]	< 1 mA
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=45
Materials:	Housing: Nickel-plated brass - Sensing area: PC red - Lock nuts: Nickel-plated brass
Mounting:	Not embeddable
Weighth: [g]	140

Electrical connection

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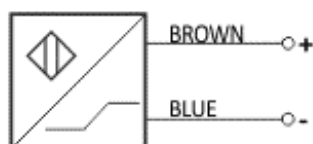
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

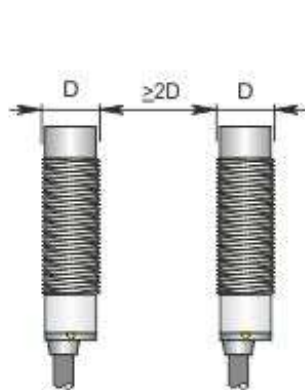
2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

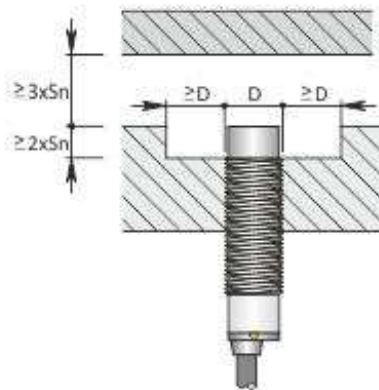
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

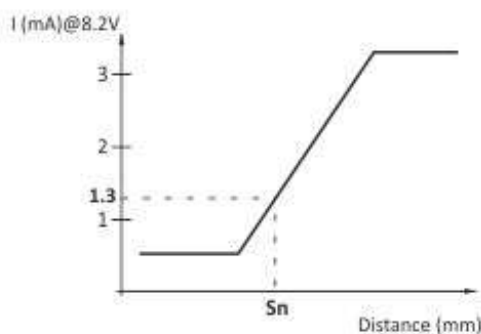


Side by side mounting

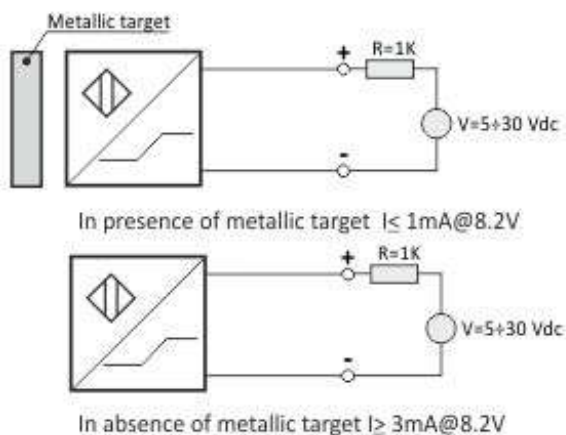


Non flush mounting

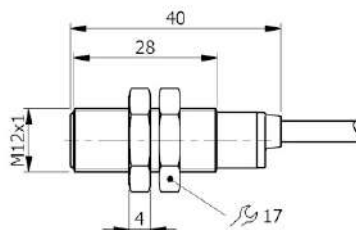
Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.



Part number: **I12000154** Model: **SI12-N2**



Dimension in mm

1. TECHNICAL CHARACTERISTICS



Electrical data

Power supply type:	Direct current
Working voltage: [V]	5 ÷ 30
Current consumption: [mA]	On <= 1 mA - Off >= 3 mA @ 8.2V
Protection class:	III
Reverse polarity protection:	Presente

Outputs

Electrical design:	Namur
Residual current: [mA]	< 1 mA
Max switching frequency: [Hz]	2000

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
Switching point drift: [%Sr]	-10 ÷ +10
Repeatability: [%Sn]	< 3

Environmental conditions

Temperature limits: [°C]	-25 ÷ +70
IP rating:	IP65-IP66-IP67

Mechanical data

Housing:	Threded type
Thread designation:	M12x1
Dimensions: [mm]	M12x1 - L=41
Materials:	Housing: Nickel-plated brass - Sensing area: POM red - Lock nuts: Nickel-plated brass
Mounting:	Embeddable
Weighth: [g]	70

Electrical connection

Cable:	3 m - PVC/PVC - 2 x 0.25 mm ²
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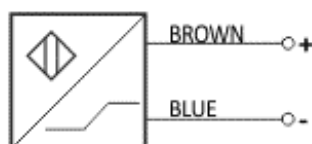
Compliance to Standards / Directives

Directives compliance:	2014/30/EU - Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

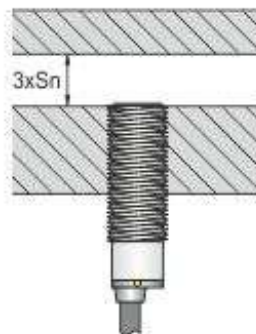
2 WIRES CABLE



INSTRUCTIONS FOR CORRECT INSTALLATION

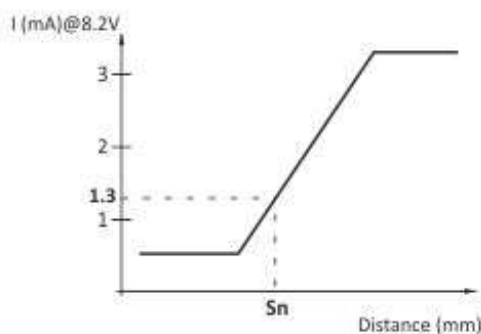


Side by side mounting



Flush mounting

Titolo img 1



The NAMUR inductive sensors are electronic devices whose absorbed current varies in the presence of a metallic target.

