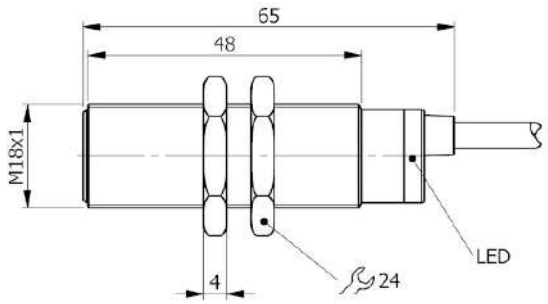
POSITION SENSORS
Inductive Sensors

Part number: **I18000451** Model: **SI18-DC8 NPN NC LC10**



Dimension in mm

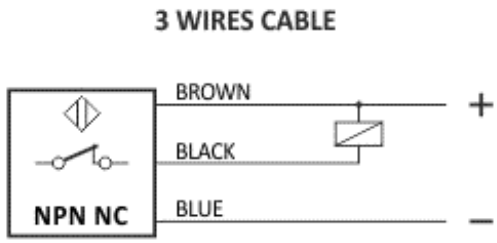
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	370
Electrical connection		
Cable:		10 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



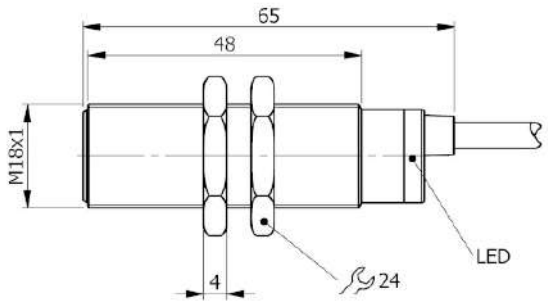
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000450** Model: **SI18-DC8 NPN NC LC5**



Dimension in mm

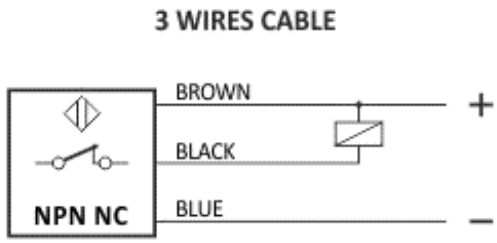
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	220
Electrical connection		
Cable:		5 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



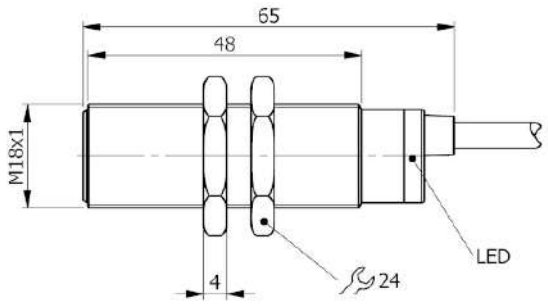
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000453** Model: **SI18-DC8 NPN NO**



Dimension in mm

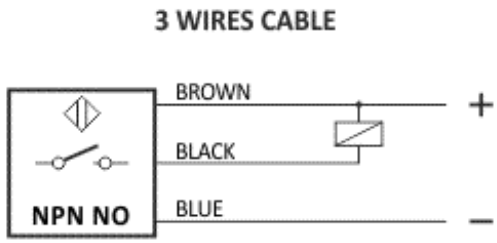
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	130
Electrical connection		
Cable:		2 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



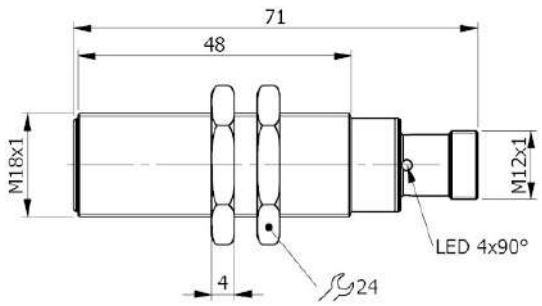
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000400** Model: **SI18-DC8 NPN NO H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS

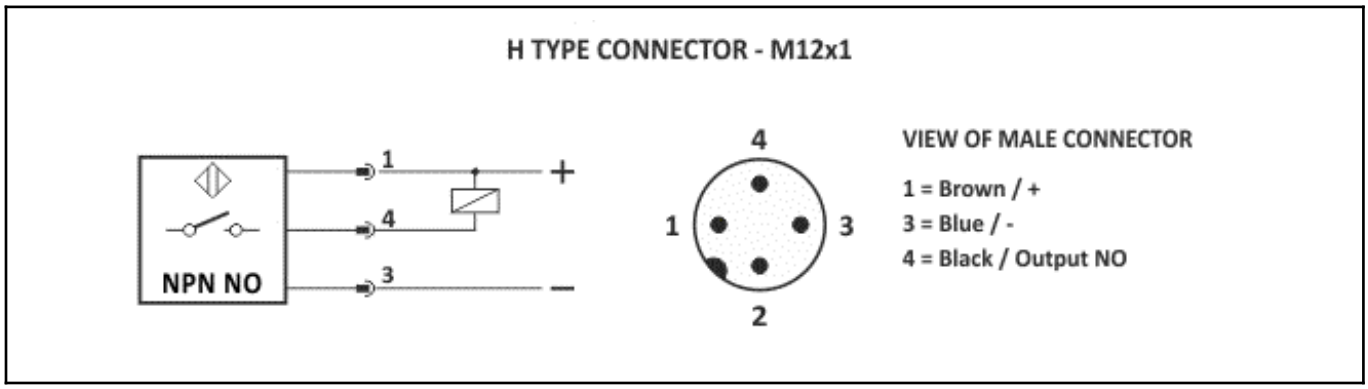
Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
IP rating:		IP65-IP66-IP67 (depending on connector)

Ci riserviamo il diritto di modificare senza preavviso i dati tecnici su questa scheda

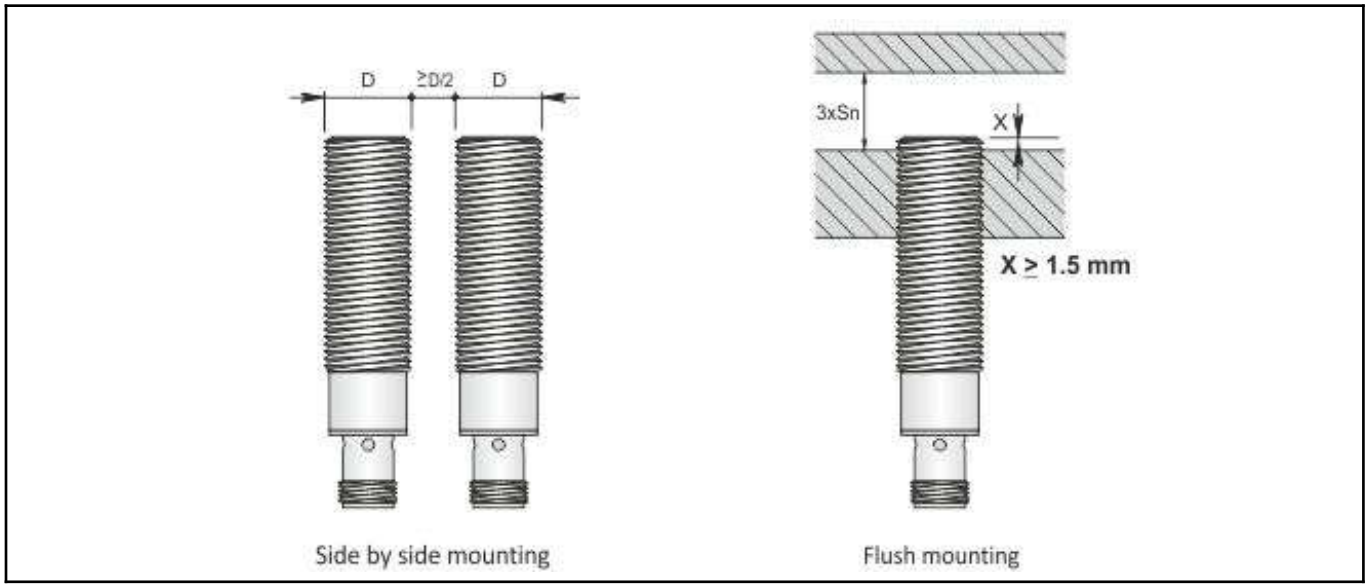
Display and control elements		
Display:		Output switching status - 4 x 90° LED: Yellow
Mechanical data		
Housing:		Threded type
Thread designation:		M18x1
Dimensions:	[mm]	M18x1 - L=71
Materials:		Housing: Nickel-plated brass - Sensing area: POM grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
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)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

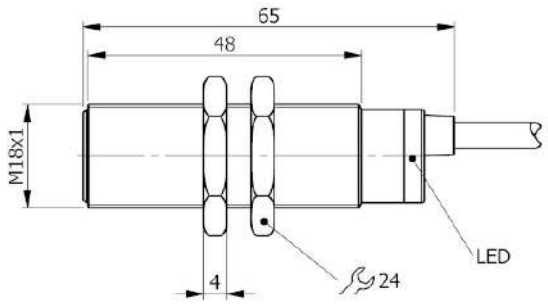


INSTRUCTIONS FOR CORRECT INSTALLATION



POSITION SENSORS
Inductive Sensors

Part number: **I18000455** Model: **SI18-DC8 NPN NO LC10**



Dimension in mm

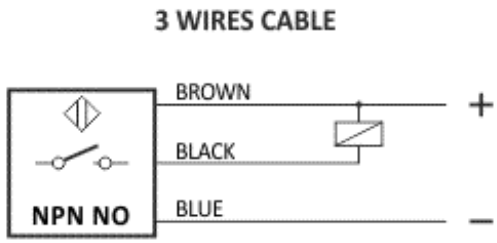
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	370
Electrical connection		
Cable:		10 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



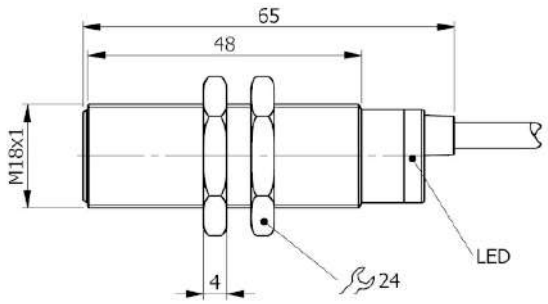
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000454** Model: **SI18-DC8 NPN NO LC5**



Dimension in mm

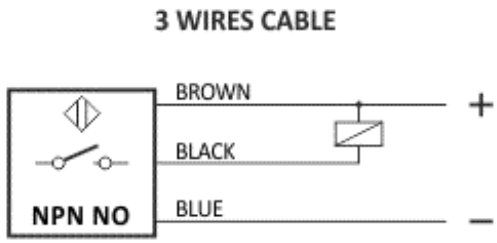
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	220
Electrical connection		
Cable:		5 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

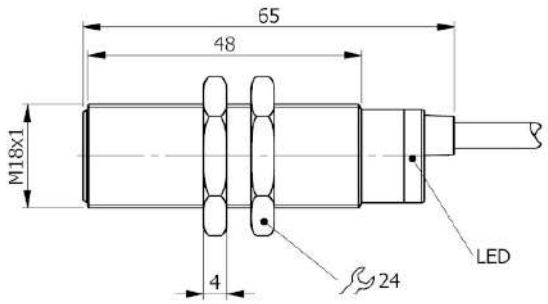
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION

POSITION SENSORS
Inductive Sensors

Part number: **I18000396** Model: **SI18-DC8 PNP NC**



Dimension in mm

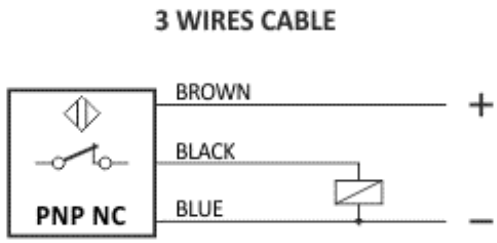
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	130
Electrical connection		
Cable:		2 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



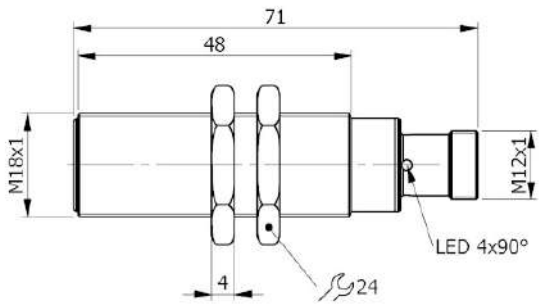
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000458** Model: **SI18-DC8 PNP NC H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS

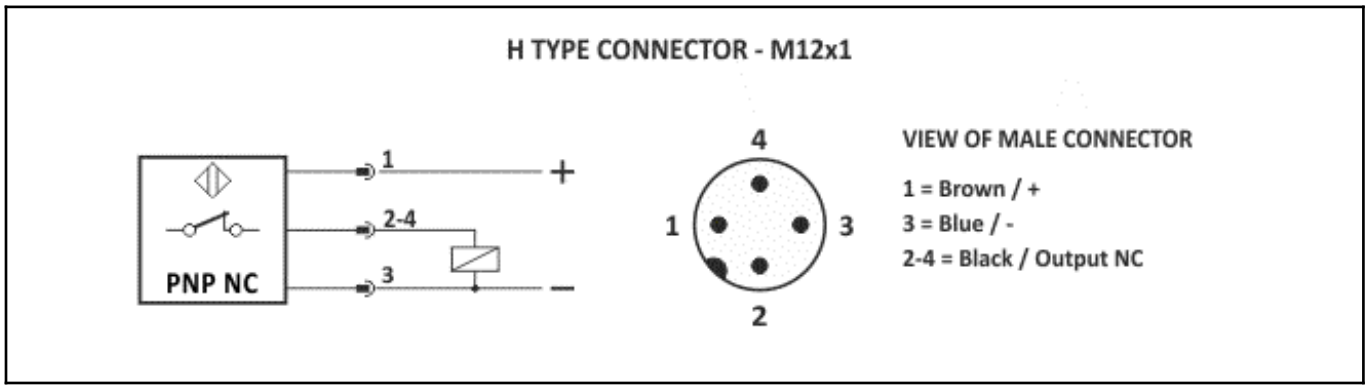
Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
IP rating:		IP65-IP66-IP67 (depending on connector)

Ci riserviamo il diritto di modificare senza preavviso i dati tecnici su questa scheda

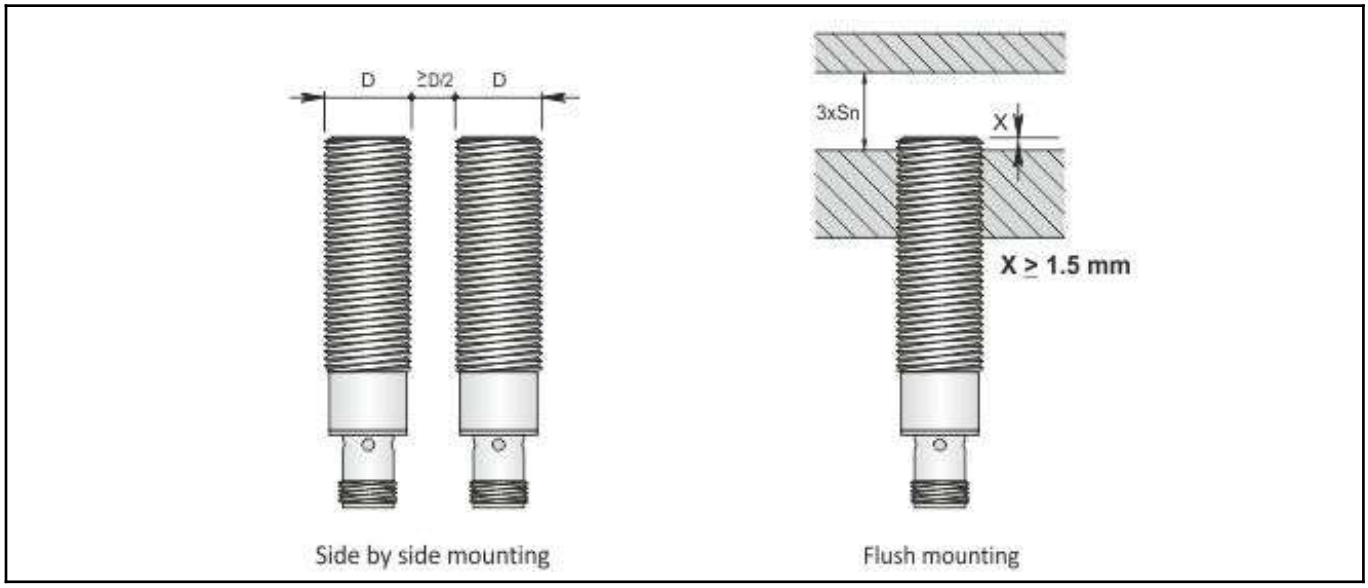
Display and control elements		
Display:		Output switching status - 4 x 90° LED: Yellow
Mechanical data		
Housing:		Threded type
Thread designation:		M18x1
Dimensions:	[mm]	M18x1 - L=71
Materials:		Housing: Nickel-plated brass - Sensing area: POM grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
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)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

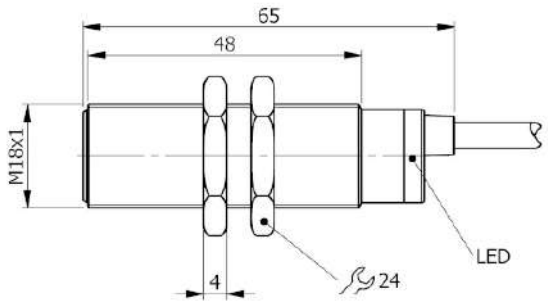


INSTRUCTIONS FOR CORRECT INSTALLATION



POSITION SENSORS
Inductive Sensors

Part number: **I18000457** Model: **SI18-DC8 PNP NC LC10**



Dimension in mm

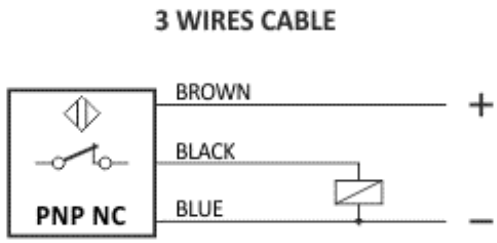
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
IP rating:		IP65-IP66-IP67

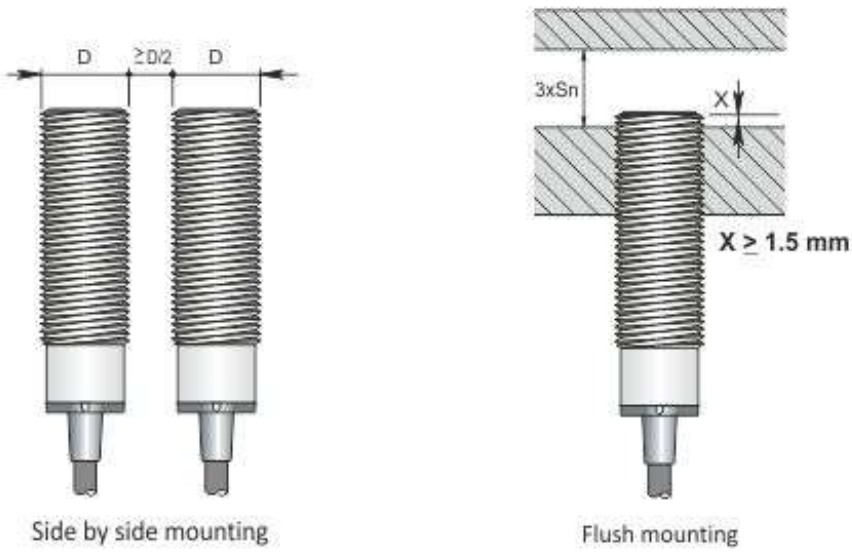
Display and control elements		
Display:		Output switching status - 1 x LED: Yellow
Mechanical data		
Housing:		Threded type
Thread designation:		M18x1
Dimensions:	[mm]	M18x1 - L=65
Materials:		Housing: Nickel-plated brass - Sensing area: POM grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	370
Electrical connection		
Cable:		10 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



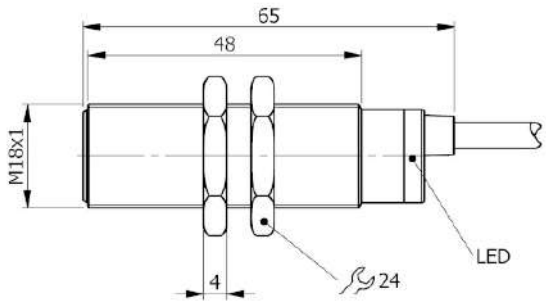
INSTRUCTIONS FOR CORRECT INSTALLATION



Ci riserviamo il diritto di modificare senza preavviso i dati tecnici su questa scheda

POSITION SENSORS
Inductive Sensors

Part number: **I18000456** Model: **SI18-DC8 PNP NC LC5**



Dimension in mm

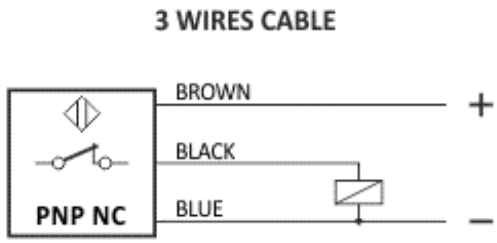
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	220
Electrical connection		
Cable:		5 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



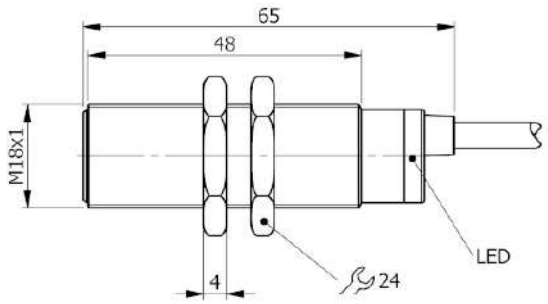
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000431** Model: **SI18-DC8 PNP NO**



Dimension in mm

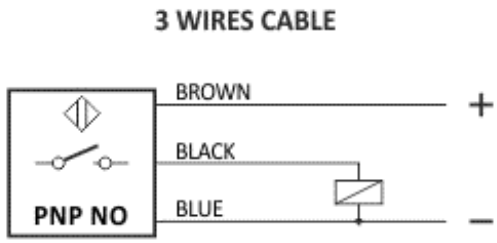
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	130
Electrical connection		
Cable:		2 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

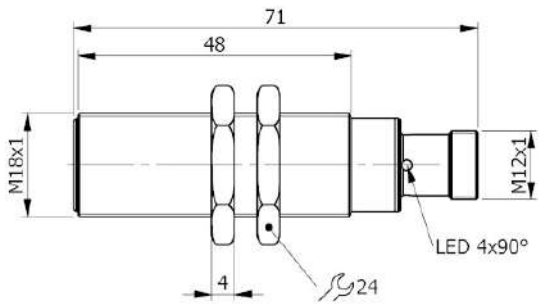
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION

POSITION SENSORS
Inductive Sensors

Part number: **I18000399** Model: **SI18-DC8 PNP NO H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS

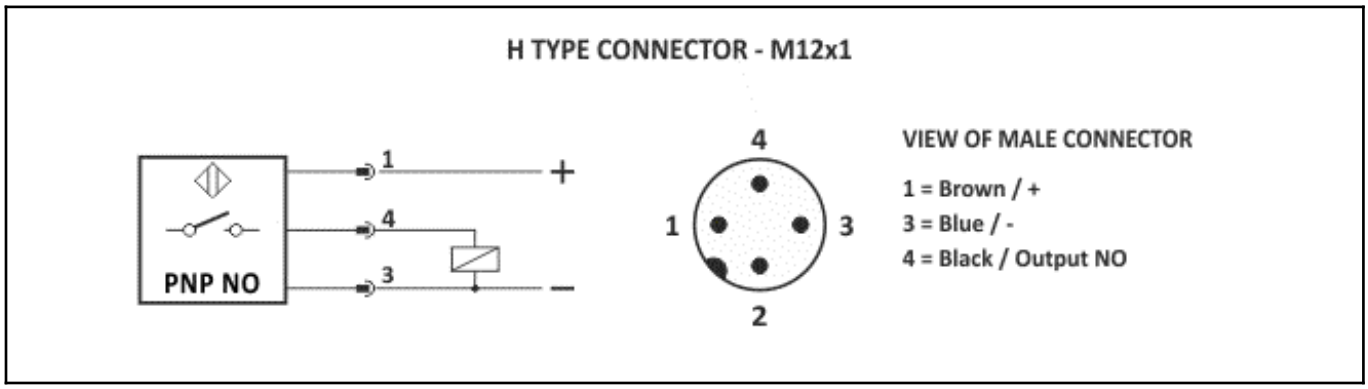
Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
IP rating:		IP65-IP66-IP67 (depending on connector)

Ci riserviamo il diritto di modificare senza preavviso i dati tecnici su questa scheda

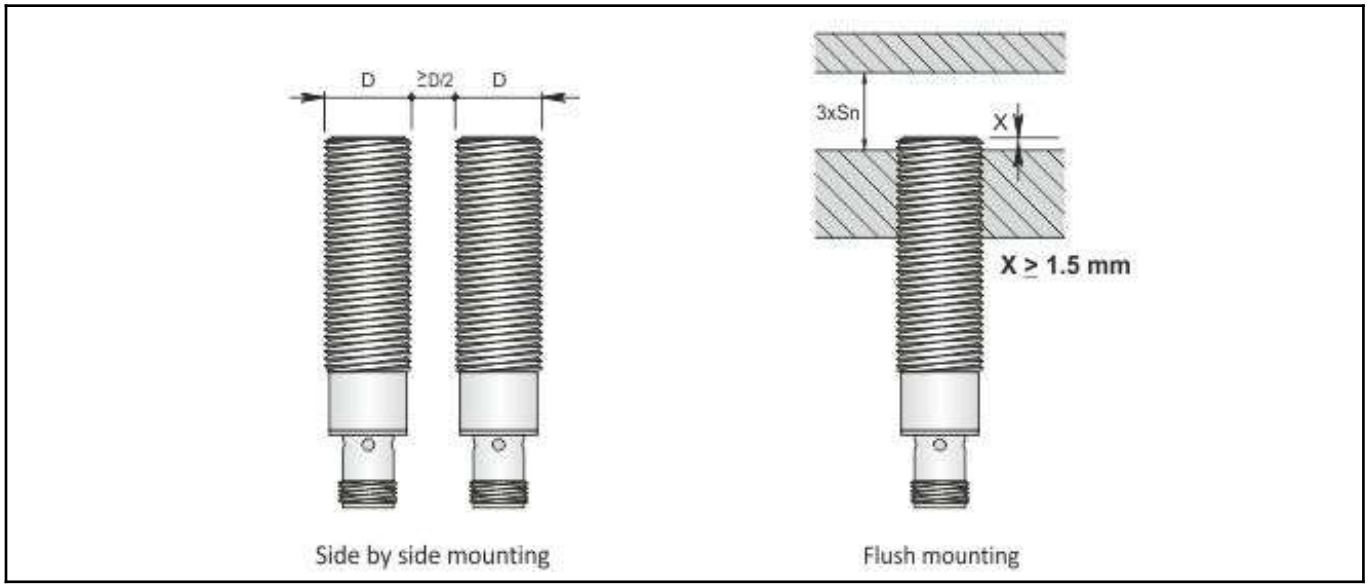
Display and control elements		
Display:		Output switching status - 4 x 90° LED: Yellow
Mechanical data		
Housing:		Threded type
Thread designation:		M18x1
Dimensions:	[mm]	M18x1 - L=71
Materials:		Housing: Nickel-plated brass - Sensing area: POM grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
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)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM

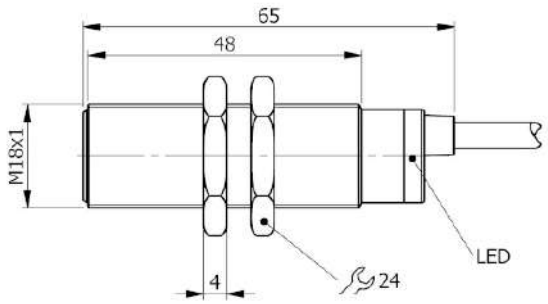


INSTRUCTIONS FOR CORRECT INSTALLATION



POSITION SENSORS
Inductive Sensors

Part number: **I18000460** Model: **SI18-DC8 PNP NO LC10**



Dimension in mm

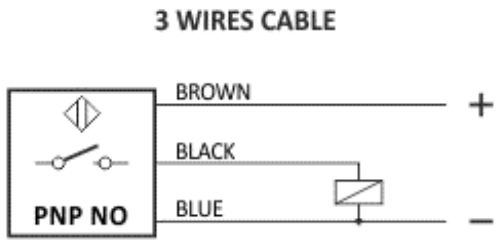
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	370
Electrical connection		
Cable:		10 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



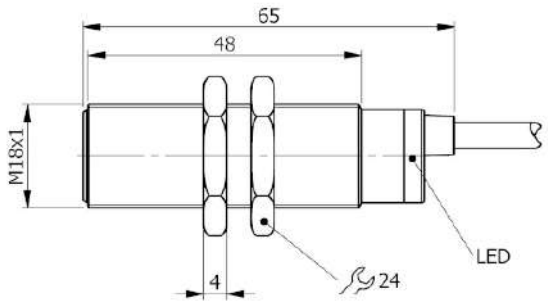
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000449** Model: **SI18-DC8 NPN NC**



Dimension in mm

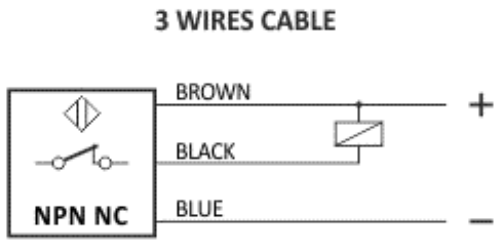
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	130
Electrical connection		
Cable:		2 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



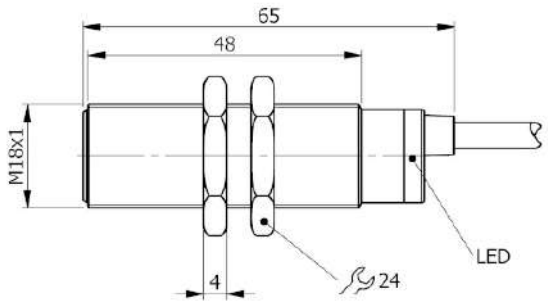
INSTRUCTIONS FOR CORRECT INSTALLATION

Side by side mounting

Flush mounting

POSITION SENSORS
Inductive Sensors

Part number: **I18000459** Model: **SI18-DC8 PNP NO LC5**



Dimension in mm

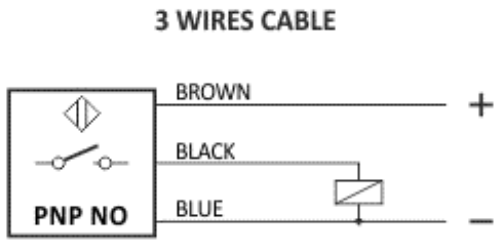
1. TECHNICAL CHARACTERISTICS

Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		PNP
Function:		NO
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
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 grey - Lock nuts: Nickel-plated brass
Mounting:		Embeddable
Weigth:	[g]	220
Electrical connection		
Cable:		5 m - PVC/PVC - 3 x 0.35 mm²
Compliance to Standards / Directives		
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

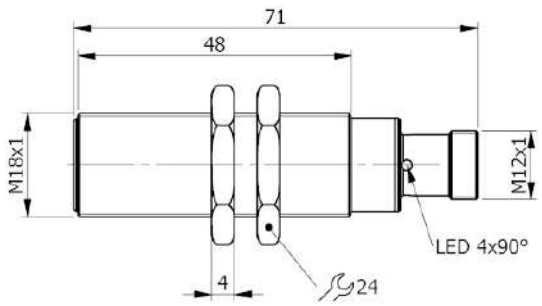
WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION

POSITION SENSORS
Inductive Sensors

Part number: **I18000452** Model: **SI18-DC8 NPN NC H**



Dimension in mm

1. TECHNICAL CHARACTERISTICS

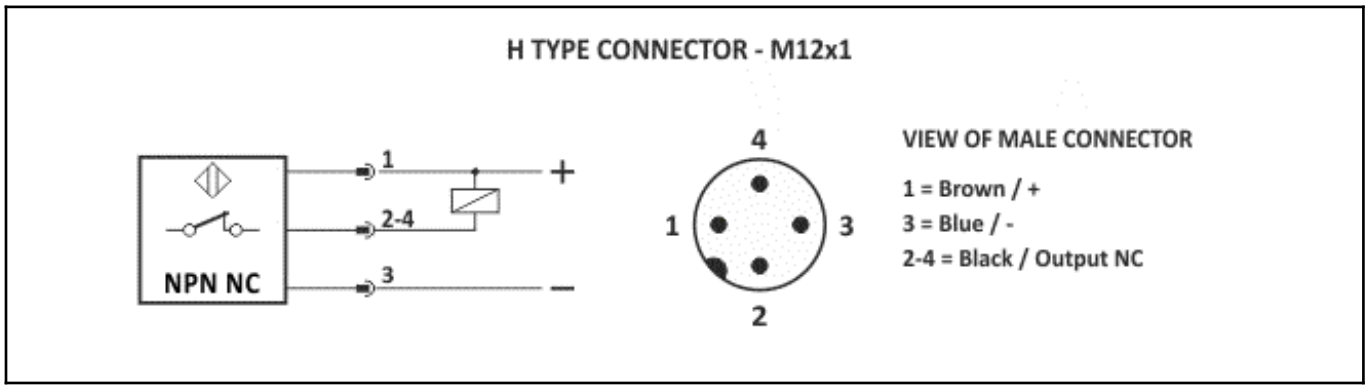
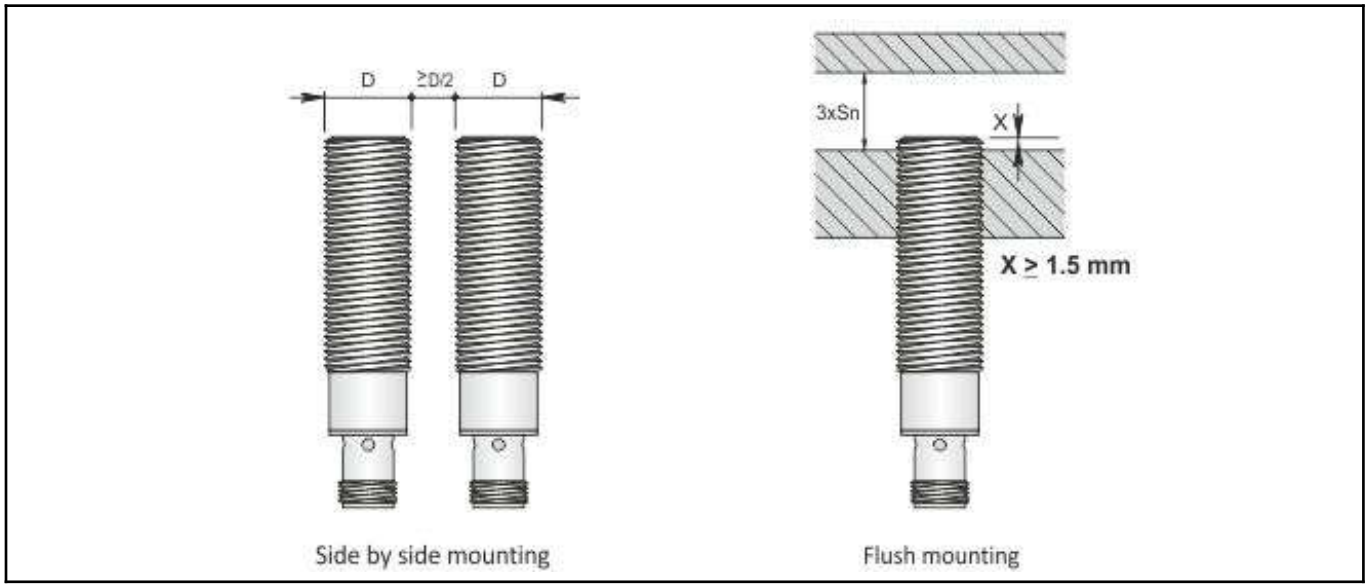
Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	10 ÷ 30
Current consumption:	[mA]	< 15 mA @ 24Vdc
Protection class:		III
Reverse polarity protection:		Presente
Outputs		
Electrical design:		NPN
Function:		NC
Max voltage drop:	[V]	< 1.8
Max output current:	[mA]	200
Max switching frequency:	[Hz]	400
Short circuit protection:		Present
Overload protection:		Present
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Extended sensing distance:		Si
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Hysteresis:	[%Sr]	< 10
Switching point drift:	[%Sr]	-10 ÷ +10
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25 ÷ +85
IP rating:		IP65-IP66-IP67 (depending on connector)

Ci riserviamo il diritto di modificare senza preavviso i dati tecnici su questa scheda

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=71
Materials:		Housing: Nickel-plated brass - Sensing area: POM grey - 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)
Standards compliance:		EN60947-5-2 - Product standard

2. NORME DI INSTALLAZIONE

WIRING DIAGRAM



INSTRUCTIONS FOR CORRECT INSTALLATION