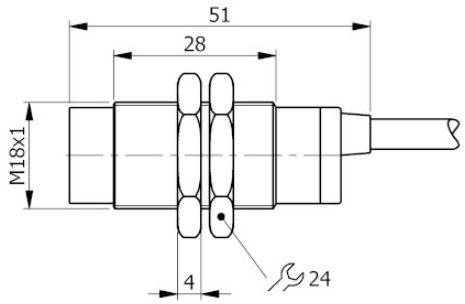
POSITION SENSORS
Inductive Sensors

Part number: **I18000143** Model: **SI18-NE8**



Dimension in mm

1. TECHNICAL CHARACTERISTICS

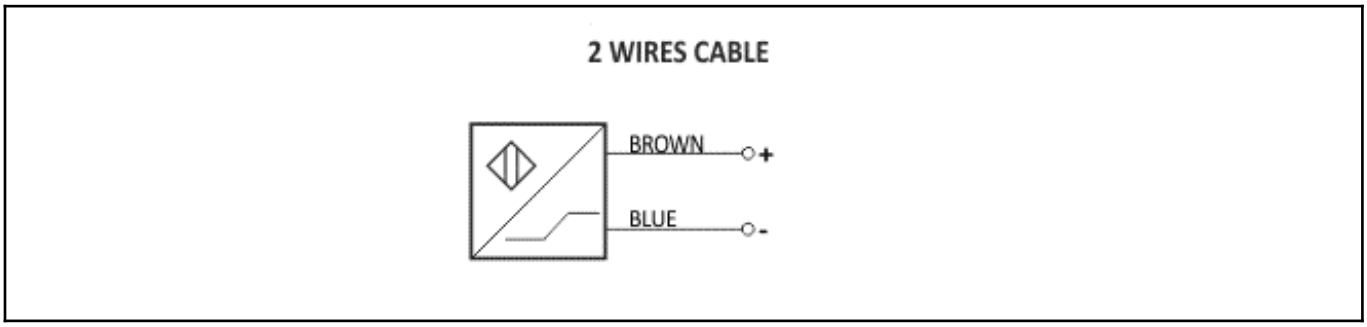
Electrical data		
Power supply type:		Direct current
Working voltage:	[V]	5 ÷ 30
Current consumption:	[mA]	On < = 1 mA - Off >= 3 mA @ 8.2V
Protection class:		III
Reverse polarity protection:		Until 8,5V
Outputs		
Electrical design:		Namur
Max switching frequency:	[Hz]	1000
Detection zone		
Switching distance-Sn:	[mm]	8
Real sensing distance-Sr:	[mm]	8 ±10%
Operative distance-So:	[mm]	0 ÷ 6.48
Accuracy and Deviations		
Correction factor:		Stainless steel: 0.9 - Brass: 0.5 - Aluminium: 0.4 - Copper: 0.4
Switching point drift:	[%Sr]	-1
Repeatability:	[%Sn]	< 3
Environmental conditions		
Temperature limits:	[°C]	-25°C ÷ +70°C
IP rating:		IP65-IP66-IP67
Mechanical data		
Housing:		Threded type
Thread designation:		M18x1
Dimensions:	[mm]	M18x1 - L=51.5
Materials:		Housing: Nickel-plated brass - Sensing area: PC red - Lock nuts: Nickel-plated brass
Mounting:		Not embeddable
Weigth:	[g]	115

Electrical connection	
Cable:	3 m - PVC/PVC - 2 x 0.50 mm²

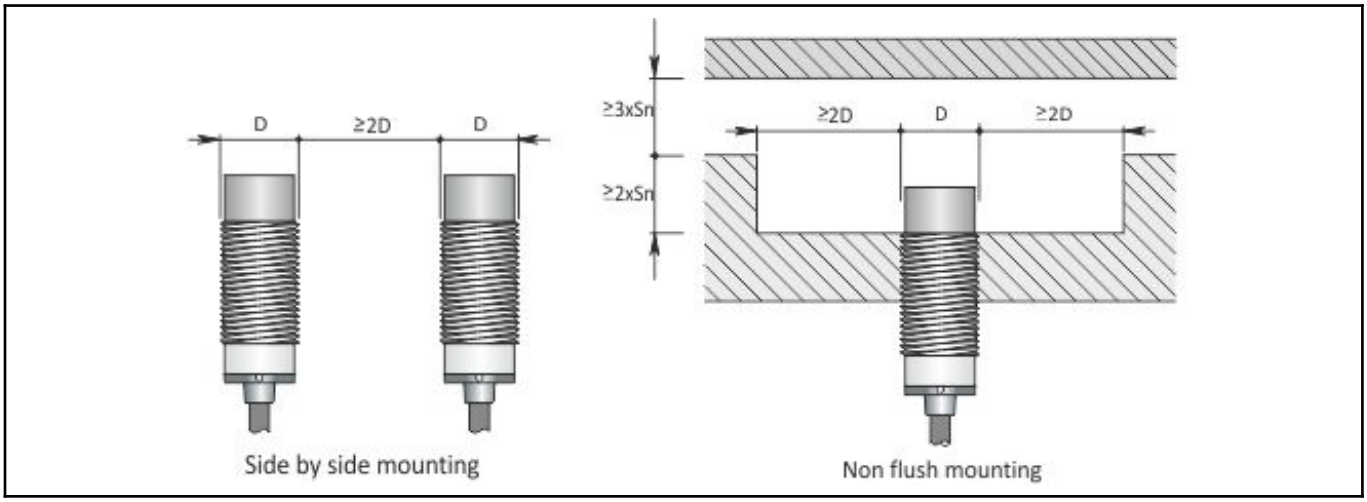
Compliance to Standards / Directives	
Directives compliance:	2014/30/EU -Electromagnetic compatibility directive (EMC)
Standards compliance:	EN60947-5-6 - Product standard

2. NORME DI INSTALLAZIONE

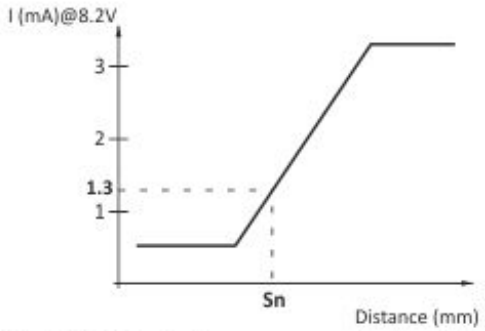
WIRING DIAGRAM



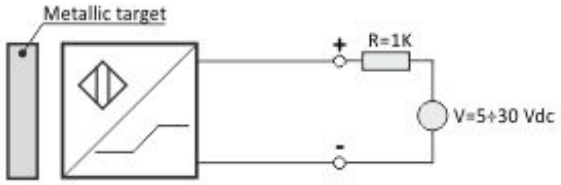
INSTRUCTIONS FOR CORRECT INSTALLATION



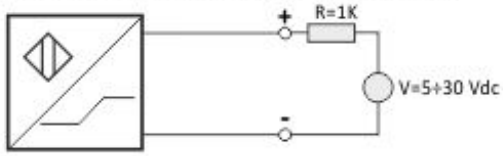
Titolo img 1



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



In presence of metallic target I≤ 1mA@8.2V



In absence of metallic target I≥ 3mA@8.2V