



Inductive Sensors Ø 8

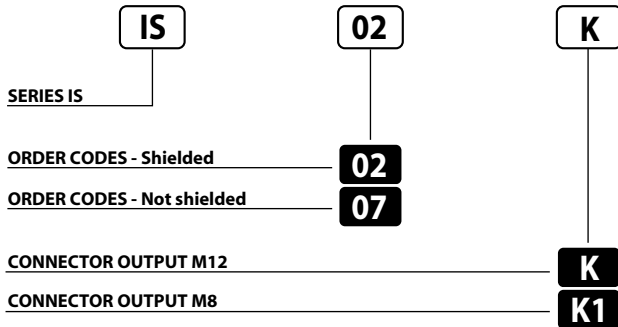
INDUCTIVE SENSORS CONFORMING TO NAMUR RULES

- Two-wire sensors
- 5-24 VAC/VDC input
- Nickel plated brass
- Shielded versions up to 1 mm
- Not shielded versions up to 2 mm

IS Series

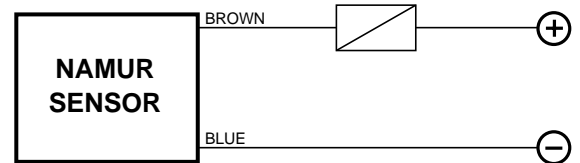


Identification code

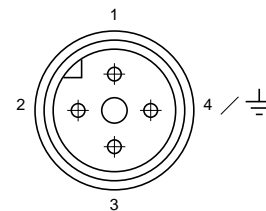


	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	1 mm	2 mm
NOMINAL VOLTAGE (Load resistance 1 K)	7.7 ÷ 9 V DC	
DC SUPPLY VOLTAGE	5 ÷ 24 V DC	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	≤ 10%	
OUTPUT CURRENT (Metal present)	≤ 1 mA	
OUTPUT CURRENT (Metal absent)	≤ 3 mA	
SWITCHING FREQUENCY	2000 Hz	
REPEATABILITY	≤ 3%	
TEMPERATURE LIMITS	-25 ÷ +60 °C	
PROTECTION DEGREE	IP 67	
CABLE LENGTH	2 m	
CABLE SECTION	2 x 0.25 mm ²	
HOUSING MATERIAL	Nickel-plated brass	
WEIGHT - Cable output -	80 g	
WEIGHT - K1 connector output -	35 g	
WEIGHT - K connector output -	55 g	

Wiring diagrams



Connection with connector M12 (K)



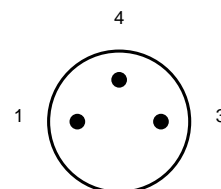
View of quadripole male connector

CONTACTS CONFIGURATION

Available	Contacts numbers			
	1	2	3	4
NAMUR	+		-	

NOTE: The K plug is compatible with the following connectors VAUDEHA, BINDER, HIRSCHMANN, LUMBERG and AMPHENOL-TUCHEL.

Connection with connector M8 (K1)



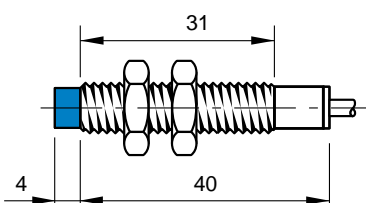
View of tripole male connector

CONTACTS CONFIGURATION

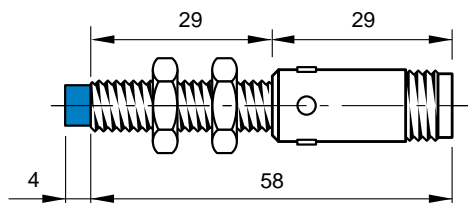
Available	Contacts numbers		
	1	3	4
NAMUR	+	-	

Dimensions (mm)

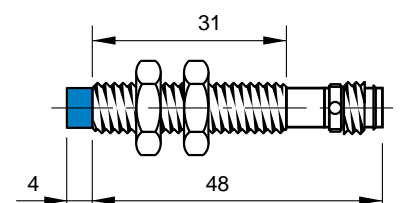
CONFIGURATION WITH CABLE



CONFIGURATION WITH CONNECTOR K



CONFIGURATION WITH CONNECTOR K1





Amplified Inductive Sensors Ø 8

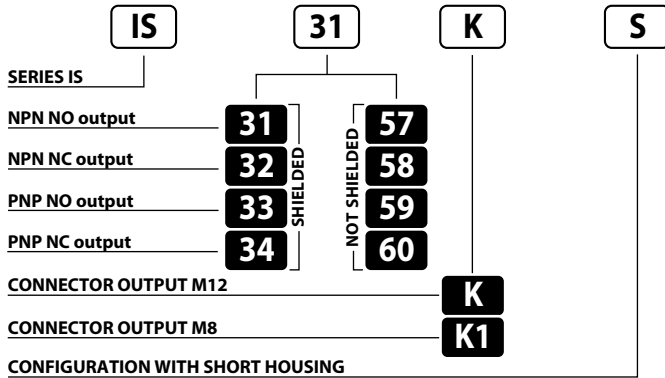
AMPLIFIED INDUCTIVE SENSORS 10÷30 V DC 3 WIRES NPN OR PNP OUTPUT

- Three-wire, amplified, sensors
- M8 stainless steel models
- Short housing models
- M8 and M12 quick connect models
- Operation LED

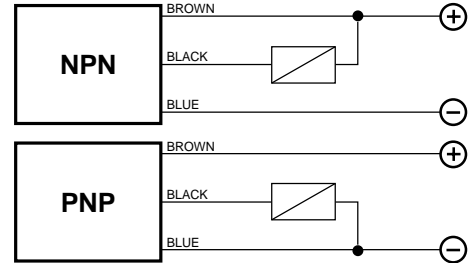
IS Series



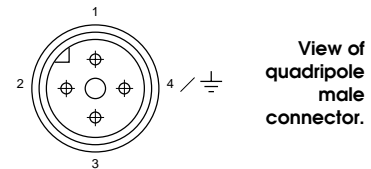
Identification code



Wiring diagrams



Connection with connector M12 (K)

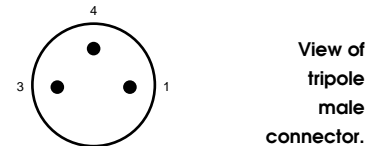


Note: The K plug is compatible with the following connectors VAUDEHA, BINDER, HIRSCHMANN, LUMBERG, AMPHENOL-TUCHEL.

CONTACTS CONFIGURATION

Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		-	NO/NC

Connection with connector M8 (K1)

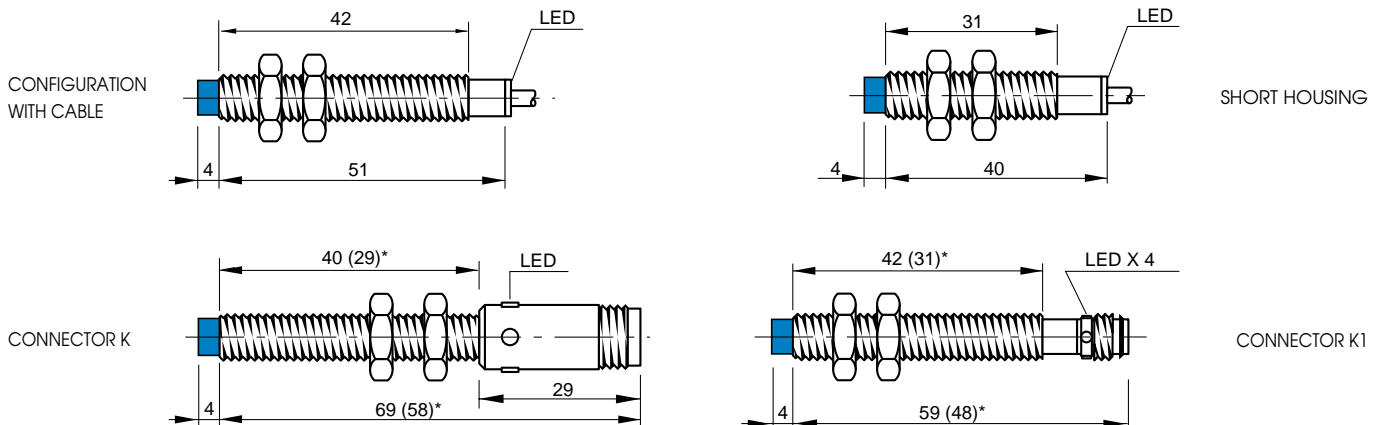


CONTACTS CONFIGURATION

Available	Contacts numbers		
	1	3	4
(NO or NC)	+	-	NO/NC

	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	1,5 mm	2 mm
NOMINAL VOLTAGE	10 ÷ 30 VDC (-15 / +10%)	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
MAX. OUTPUT CURRENT	200 mA	
RESIDUAL CURRENT	< 10 mA	
VOLTAGE DROP	< 1.2 V (I = 100 mA)	
OPERATION LED	Yellow	
SWITCHING FREQUENCY	1000 Hz	
START UP DELAY	≤ 50 mS	
REPEATABILITY	≤ 3%	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads	
TEMPERATURE LIMITS	- 25 ÷ +70 °C	
PROTECTION DEGREE	IP 67	
CABLE LENGTH	2 m	
CABLE SECTION	3 x 0,14 mm ²	
HOUSING MATERIAL	Stainless-steel	
WEIGHT - Cable output -	80 g	
WEIGHT - K1 connector output -	40 g	
WEIGHT - K connector output -	55 g	

Dimensions (mm)



(*) The dimensions into brackets refer to short housing models



Amplified Inductive Sensors Ø 8

AMPLIFIED INDUCTIVE SENSORS INCREASED RANGE 10÷30 VDC 3 WIRES NPN OR PNP OUTPUT

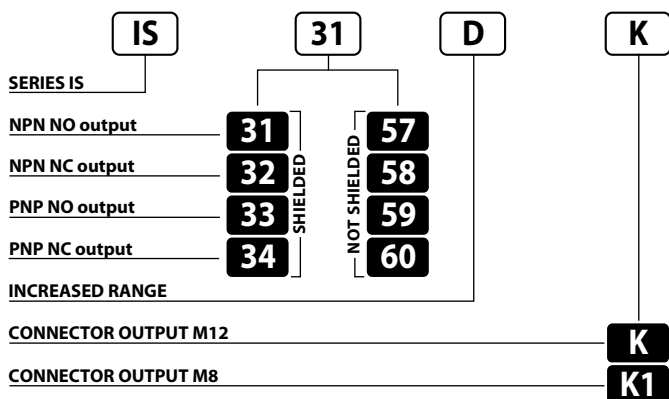
- Three-wire
- Increased range, shielded, not shielded
- Range, 2 mm to 3 mm
- Short housing cable models
- 200mA NPN or PNP
- Housing stainless steel
- Operation LED

IS Series

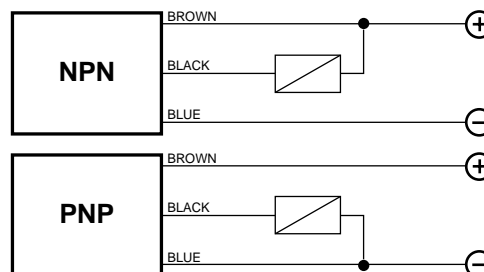
New



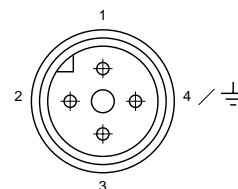
Identification code



Wiring diagrams



Connection with connector M12 (K)

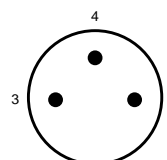


View of quadripole male connector.

CONTACTS CONFIGURATION

Available	Contacts numbers			
	1	2	3	4
(NO or NC)	+		-	NO/NC

Connection with connector M8 (K1)



View of tripole male connector.

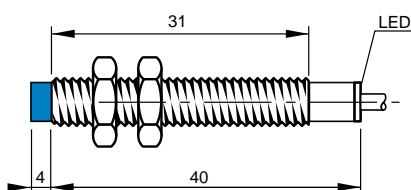
CONTACTS CONFIGURATION

Available	Contacts numbers		
	1	3	4
(NO or NC)	+	-	NO/NC

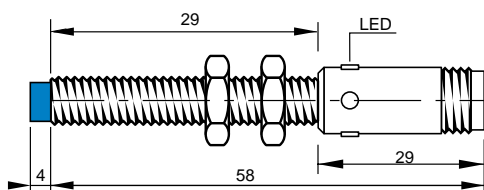
	SHIELDED	NOT SHIELDED
NOMINAL SWITCHING DISTANCE (Sn)	2 mm	3 mm
NOMINAL VOLTAGE	10 ÷ 30 VDC (-15 / +10%)	
RESIDUAL RIPPLE	≤ 10%	
HYSTERESIS	< 10%	
MAX. OUTPUT CURRENT	200 mA	
RESIDUAL CURRENT	< 10 mA	
VOLTAGE DROP	< 1.2 V (I = 100 mA)	
OPERATION LED	Yellow	
SWITCHING FREQUENCY	500 Hz	
START UP DELAY	≤ 75 mS	
REPEATABILITY	≤ 3%	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads	
TEMPERATURE LIMITS	- 25 ÷ +70 °C	
PROTECTION DEGREE	IP 67	
CABLE LENGTH	2 m	
CABLE SECTION	3 x 0,14 mm ²	
HOUSING MATERIAL	Stainless-steel	
WEIGHT - Cable output -	80 g	
WEIGHT - K1 connector output -	40 g	
WEIGHT - K connector output -	55 g	

Dimensions (mm)

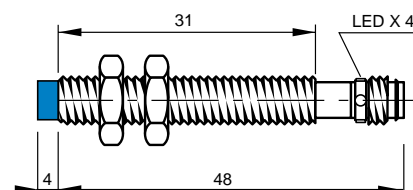
CONFIGURATION WITH CABLE



CONNECTOR K



CONNECTOR K1



Note: the front part in blue refers to not shielded models