

SENSORS

AMPLIFIED INDUCTIVE SENSORS

IS Series

10-30 VDC 3 Wires

NPN or PNP Output

Double Range

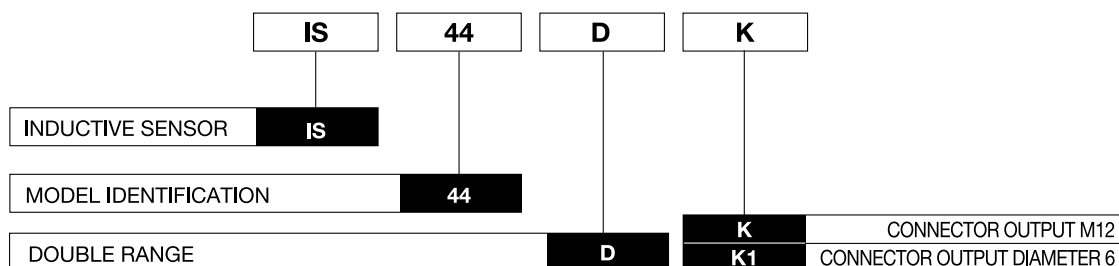
Approved to cULus
and CE



DIAMETER	Ø 6.5	Ø 8	Ø 12	Ø 18	Ø 30
Available Versions	Shielded	Shielded	Shielded	Shielded	Shielded
Switching Distance (± 20 %)	2 mm	2 mm	4 mm	8 mm	15 mm
Dc Supply Voltage	10 - 30 VDC (-15 / + 10 %)				
Residual Ripple	≤ 10 %				
Hysteresis	< 10 %				
Max. Output Current	200 mA				
Absorption At 24 VDC	< 10 mA				
Voltage Drop (Sensor On)	< 1.2 V (I = 100 mA)				
Operation LED	Present				
Switching Frequency	500 Hz			400 Hz	200 Hz
Repeatability	≤ 0.01 mm		≤ 0.02 mm	≤ 0.03 mm	≤ 0.05 mm
Short Circuit Protection	Present (Self-resetting)				
Electric Protections	Polarity reversal and inductive loads				
Temperature Limits	-25- +60 °C				
Protection Grade	IP 67				
Cable Length	2 m				
Cable Section	3 x 0.14 mm²		3 x 0.25 mm²		3 x 0.25 mm²
Housing Material	Nickel-plated brass				
Weight (Approximate)	80 g	80 g	110 g	145 g	210 g

CONFIGURATION	Ø 6.5	Ø 8	Ø 12	Ø 18	Ø 30
NPN NO Output	IS-27 D	IS-31 D	IS-35 D	IS-41 D	IS-47 D
NPN NC Output	IS-28 D	IS-32 D	IS-36 D	IS-42 D	IS-48 D
PNP NO Output	IS-29 D	IS-33 D	IS-38 D	IS-44 D	IS-50 D
PNP NC Output	IS-30 D	IS-34 D	IS-39 D	IS-45 D	IS-51 D
Connector	K1	K1 and K		K	

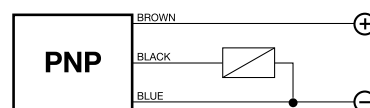
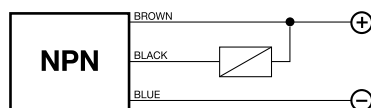
Product Code Example



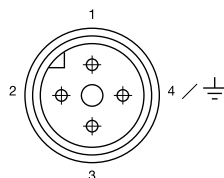
Other versions with Metal Face, High Temperature, 4 Wire, Weld Field Immune or Increased Range are also available.
Please contact the sales office for further information.

SENSORS

Wiring Diagrams



Connection with Type K Connector M 12



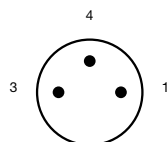
View of quadripole male connector.

CONTACTS CONFIGURATION

Available	N. contacts			
	1	2	3	4
(NO or NC)	+		-	NO/NC

NOTE: The K plug is compatible with the following connectors VAUDEHA, BINDER, HIRSHMANN, LUMBERG, AMPHENOL-TUCHEL and BRAD HARRISON

Connection with Type K1 Connector



View of tripole male connector.

CONTACTS CONFIGURATION

Available	N. contacts		
	1	3	4
(NO or NC)	+	-	NO/NC

Dimensions (mm)

Ø	Configuration with Cable	Configuration with Connector K	Configuration with Connector K1
6.5			
8			
12			
18			
30			