

SENSORS

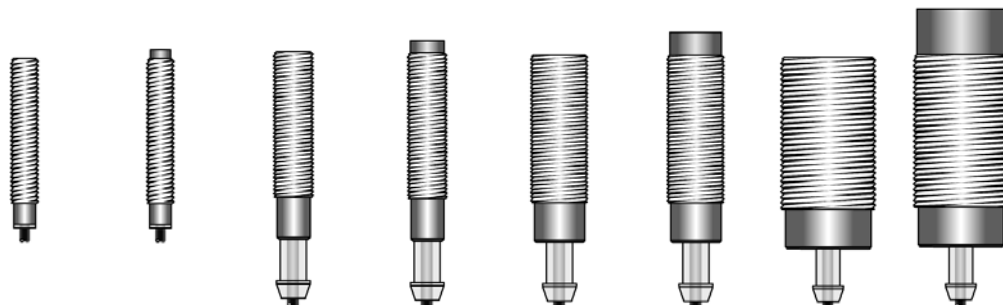
AMPLIFIED INDUCTIVE SENSORS

IS Series

10-30VDC 3 Wires

NPN or PNP Output

Approved to cULus
and CE



DIAMETER	Ø 8		Ø 12		Ø 18		Ø 30	
Available Versions	Shielded	Not Shielded	Shielded	Not Shielded	Shielded	Not Shielded	Shielded	Not Shielded
Switching distance (± 20 %)	1.5 mm	2 mm	2 mm	4 mm	5 mm	8 mm	10 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)		< 1.8 V (I = 100 mA)					
Operation LED	Present							
Switching frequency	1000 Hz		1000 Hz				300 Hz	
Repeatability	≤ 0.01 mm		≤ 0.02 mm		≤ 0.03 mm		≤ 0.05 mm	
Short circuit protection	Present (Self-resetting)							
Electric protections	At 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		110 g		145 g		210 g	

CONFIGURATION	Ø 8		Ø 12		Ø 18		Ø 30	
NPN NO Output	IS-31	IS-57	IS-35	IS-61	IS-41	IS-67	IS-47	IS-73
NPN NC Output	IS-32	IS-58	IS-36	IS-62	IS-42	IS-68	IS-48	IS-74
PNP NO Output	IS-33	IS-59	IS-38	IS-64	IS-44	IS-70	IS-50	IS-76
PNP NC Output	IS-34	IS-60	IS-39	IS-65	IS-45	IS-71	IS-51	IS-77
Connector	K1 and K				K			

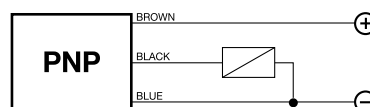
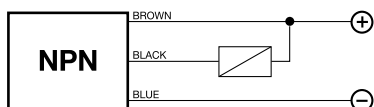
Product Code Example

	IS	44	K	S	
INDUCTIVE SENSOR	IS				
MODEL IDENTIFICATION		44			
CONNECTOR OUTPUT M12			K ⁽¹⁾	S	CONFIGURATION WITH SHORT HOUSING
CONNECTOR OUTPUT DIAMETER 6			K1		

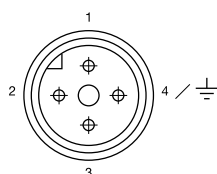
Other versions with Metal Face, High Temperature, 4 Wire, Weld Field Immune or Increased Range are also available.
Please contact the sales office for further information.

SENSORS

Wiring Diagrams



Connection with Type K Connector M 12



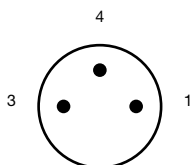
View of quadripole male connector.

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	Short Housing	Connector K	Connector K1
8				
12				
18				
30				

NOTE: The front part in grey refers to unshielded types.
(*) The dimension between brackets refers to short housing models