

Rated supply voltage	24 to 240V ac (50/60Hz) or 24 to 210V dc
Voltage limits (including ripple)	20 to 264V
Output rating (max.)	M12 200mA, M18/M30 300mA
Switching frequency	M12 25Hz (ac), 350Hz (dc) M18 25Hz (ac), 200Hz (dc) M30 25Hz (ac), 100Hz (dc)
Temperature range	-25°C to +80°C

FOR SUITABLE SENSOR CONNECTORS SEE ½" UNF (AC) RANGE,
ORDER CODE 532-241

Sensing				Price Each			
Size	Distance	Mftrs. List No.	Order Code	1+	5+	10+	25+
M12	1.6mm	XS1M12MA230K	530-360				
M18	4mm	XS1M18MA230K	530-372				
M30	8mm	XS1M30MA230K	530-384				

Detectors of Ferrous or Non-Ferrous Materials

M18, M30 and 5-Position Turret Head



722-9800:	M18 1, L (overall) = 60, Cable L = 2m
722-9811:	M30 1.5, L (overall) = 60, Cable L = 2m
722-9823:	H = 40, W = 40, L = 117, Fixing centres = 60 30 (Dia. 5.3)

- Detect ferrous or non-ferrous materials without variation of sensing distance
- Flush mountable in metal
- Wire selectable PNP/NPN, NO/NC output
- LED output status indication

Sensing distance (nom.)	M18 = 5mm, M30 = 10mm, Turret head = 15mm
Operating zone	M18 = 0 to 4mm, M30 = 0 to 8mm, Turret head = 0 to 12mm
Supply voltage	10 to 38V dc (including ripple)
Switching capacity	0 to 200mA with overload and short-circuit protection
Switching frequency	1000Hz max.
Case material	M18 = brass, M30 = stainless steel, Turret head = plastic
Connection	M18/M30 = prewired, 4-wire Turret head = screw terminals, cable gland entry

				Price Each			
Style	Mftrs. List No.	Order Code		1+	5+	10+	
M18 barrel	XS1-M18KPM40	722-9800					
M30 barrel	XS1-M30KPM40	722-9811					
5-position turret head	XS7-C40KPM40	722-9823					

M12 Plug-In, 3-Wire dc



- 3-wire dc inductive proximity switches with yellow LED operation indicator
- LED indicator gives multi-direction visibility on M18 and M30 sensors
- Fully shielded
- Metal body incorporates metal 4-pin M12 plug-in connector giving high strength

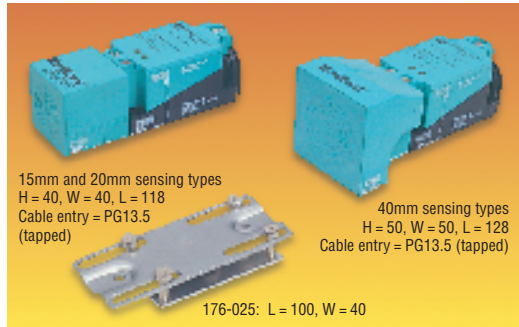
M8 types: L (body) = 40, L (overall) = 60
M12 types: L (overall) = 60
M18/M30 types: L (body) = 50, L (overall) = 60

Output	Normally open, NPN or PNP	Sealing	IP67
Output rating	M8 = 100mA, M12 = 200mA M18 = 200mA, M30 = 200mA	Response frequency	M8 = 500Hz, M12 = 1.5kHz, M18 = 1.5kHz, M30 = 1.5kHz
Supply voltage	10 to 30V dc	Temperature range	-25°C to +70°C

Mftrs. List No's.	NBB1-5-8GM40-E0-V1 = 532-691, NBB2-12GM50-E0-V1 = 532-710, NBB5-18GM50-E0-V1 = 532-733, NBB10-30GM50-E0-V1 = 532-757,	NBB1-5-8GM40-E2-V1 = 532-708, NBB2-12GM50-E2-V1 = 532-721, NBB5-18GM50-E2-V1 = 532-745, NBB10-30GM50-E2-V1 = 540-560
-------------------	--	---

Sensing				Price Each			
Size	Distance	Output	Order Code	1+	5+	10+	25+
M8	1.5mm	NPN	532-691				
M8	1.5mm	PNP	532-708				
M12	2mm	NPN	.532-710				
M12	2mm	PNP	.532-721				
M18	5mm	NPN	.532-733				
M18	5mm	PNP	.532-745				
M30	10mm	NPN	.532-757				
M30	10mm	PNP	.540-560				

5 Position Turret Head Range – 2 Wire ac, 3 Wire dc



15mm and 20mm sensing types
H = 40, W = 40, L = 118
Cable entry = PG13.5 (tapped)

40mm sensing types
H = 50, W = 50, L = 128
Cable entry = PG13.5 (tapped)

176-025: L = 100, W = 40

- Sensing head may be set in one of 5 positions mutually at right angles
- Main body of unit plugs into base and may therefore be replaced easily
- Key-way pin prevents connection of a dc unit into an ac base
- LED indication of operation and supply (dc versions)
- Connection is to terminals within the base of the unit
- 15mm types are flush mountable
- Conforms to **DIN43694**, **EN50025** and **EN50037**

Inductive proximity switches for detection of metallic objects without physical contact at a distance dependent on the ferrous content within the object. The indicated sensing distances are based upon ferrous material.

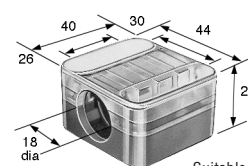
The switch mounting bracket is a two part kit to allow easy mounting and setting of the above switches. It gives 30mm lengthwise adjustment.

Output	ac: NO or NC, dc: NO
Output rating	ac: 500mA 45 to 65Hz (2-wire thyristor) dc: 200mA (3-wire NPN or PNP transistor)
Response frequency	ac: 25Hz, dc: 300Hz
Temperature range	-25°C to +70°C

Mftrs. List No.	NJ15-U1-W = 176-021, NJ15-U1-E = 176-022, NJ15-U1-E2 = 179-262, NJ20-U1-W = 254-435, NJ20-U1-E = 179-263, NJ20-U1-E2 = 179-264, NJ40-U1-W = 176-023, NJ40-U1-E = 176-024, NJ40-U1-E2 = 179-265, MH4-2057 = 176-025.
-----------------	--

Sensing				Price Each			
Distance	Voltage	Order Code		1+	5+	10+	25+
15mm	20 to 250V ac	176-021					
15mm	10 to 30V dc/NPN	176-022					
15mm	10 to 30V dc/PNP	179-262					
20mm	20 to 250V ac	.254-435					
20mm	10 to 30V dc/NPN	.179-263					
20mm	10 to 30V dc/PNP	.179-264					
40mm	20 to 250V ac	.176-023					
40mm	10 to 30V dc/NPN	.176-024					
40mm	10 to 30V dc/PNP	.179-265					
Switch mounting bracket		.176-025					

Mounting Clamp, M18



Suitable Fixing Screws = M5 25

Surface mount clamp offering an alternative method of mounting standard M18 cylindrical proximity switches. Slots allow lengthwise adjustment.

				Price Each		
Size	Order Code	1+		10+		25+
M18	179-309					

Sensor Mounting Bracket



- High quality, fully adjustable mounting bracket for all types of barrel sensors
- Constructed from Black Nylon 66, with stainless steel fasteners and a zinc plated knurled pin
- Supplied complete with a kit of parts to fit sensor diameters 4mm, 5mm, 12mm, 14mm, 18mm and 30mm
- Two M4 20mm zinc plated cap head screws are supplied for fixing the bracket in position

				Price Each		
Mftrs. List No.	Order Code	1+		5+		10+
TP-30	311-5379					