

Size	Contact Form (earthed*)	Max dc Contact Ratings			Order Code
		V	V.A.	A	
Miniature	SPNO	220	15	0.5	170-838
Miniature	SPCO	175	3	0.25	170-839
Standard	SPNO*	250	100	3	170-842
Standard	SPCO*	250	50	1.5	170-841

Order Code	Used with Order Code	Distance - face to face		Max. (mm)
		Min. (mm)		
170-840	170-838	7		13
	170-839	5		13
170-843	170-842	13		22
	170-841	13		25

Type	Order Code	1+	Price Each	10+	25+
Switches					
Miniature SPNO	170-838	672.00	548.00	492.00	
Miniature SPCO	170-839	1,064.00	877.00	788.00	
Standard SPNO	170-842	887.00	784.00	740.00	
Standard SPCO	170-841	1,192.00	1,056.00	997.00	
Magnets					
Miniature	170-840	324.00	264.00	240.00	
Standard	170-843	327.00	296.00	277.00	

Proximity Switches - Inductive - Pepperl + Fuchs

2 Wire dc, Plug-in 2 Wire dc **PEPPERL+FUCHS**
Embeddable and Non Embeddable



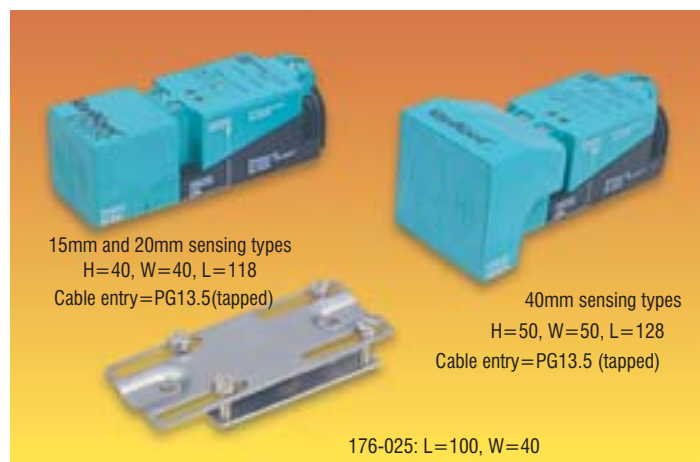
- Low Off-state current -2 wire Inductive sensors
 - 2 wire dc NO output with yellow LED operation indicator
 - Reverse polarity tolerant
 - Fully shielded
 - Brass, Nickel plated M12, M18, M30 body
 - Protection Degree **IP67**
- Temperature range -25° to 70°C
Supply Voltage 6 to 60Vdc
Response Frequency 700Hz (NBB10), 1000Hz (NBN8), 1500 Hz (NBB5), 2000Hz (NBB2, NBN4)
Output rating 4 to 100mA
Off state current 1mA

Sensing Distance (mm)	Thread Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	+
2 Wired dc, Embeddable-Prewired, 2m								
2	M12	NBB2-12GM40-Z0	356-5312	3,078.00	2,896.00	2,835.00	2,628.00	--
5	M18	NBB5-18GM40-Z0	356-5324	3,828.00	3,601.00	3,526.00	3,439.00	--
10	M30	NBB10-30GM40-Z0	372-5728	4,220.00	4,036.00	3,900.00	3,763.00	--
2 Wired dc, None-Embeddable-Prewired, 2m								
4	M12	NBN4-12GM40-Z0	372-5741	2,940.00	2,744.00	2,597.00	2,310.00	--
8	M18	NBN8-18GM40-Z0	356-5348	3,828.00	3,601.00	3,526.00	3,223.00	--
2 Wire dc, Embeddable-Plug in, M12 4 Pin								
2	M12	NBB2-12GM40-Z0-V1	356-5610	2,998.00	2,821.00	2,762.00	2,695.00	--
5	M18	NBB5-18GM40-Z0-V1	356-5622	3,790.00	3,565.00	3,491.00	3,390.00	--
10	M30	NBB10-30GM40-Z0-V1	372-5730	4,492.00	4,230.00	4,094.00	3,735.00	--
2 Wire dc, Non-Embeddable-Plug in, M12 4 Pin								
4	M12	NBN4-12GM40-Z0-V1	356-5634	2,969.00	2,793.00	2,734.00	2,654.00	--
8	M30	NBN8-18GM40-Z0-V1	356-5671	3,790.00	3,565.00	3,491.00	3,390.00	--

Download your personalised certificate of compliance at www.farnell-newarkinone.com

Don't risk anyone else for RoHS

5 Position Turret Head Range - 2 Wire ac, 3 Wire dc **PEPPERL+FUCHS**



- 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**
- All bases now supplied with metric sleeves

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

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.

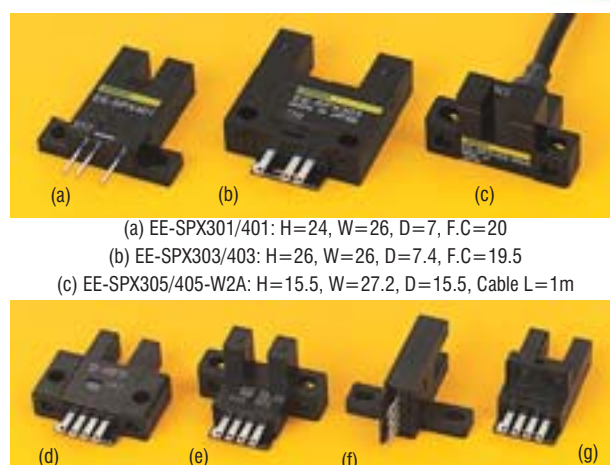
The switch mounting bracket is a two part kit to allow easy mounting and setting of the above switches. It gives 30mm lengthwise adjustment.

Mfrs. List Nos: NJ15+U1+W=176-021 NJ20+U1+E=179-263 NJ40+U1+E=176-024
NJ15+U1+E=176-022 NJ20+U1+E2=179-264 NJ40+U1+E2=179-265
NJ15+U1+E2=179-262 NCN20+U1+U=372-5807 NCN40+U1+U=372-5819
NCB15+U1+U=372-5790 NJ40+U1+W=176-023 MH4-2057=176-025
NJ20-U1-W=254-435

Sensing Distance	Voltage	Order Code	1+	Price Each	5+	10+	25+
15mm	20 to 250V ac	176-021	5,605.00	--	--	--	--
15mm	10 to 30V dc/NPN	176-022	3,860.00	3,685.00	--	--	--
15mm	10 to 30V dc/PNP	179-262	3,860.00	3,589.00	3,419.00	--	--
15mm	20 to 253Vac/dc	372-5790	6,824.00	--	--	--	--
20mm	20 to 250V ac	254-435	6,099.00	--	--	--	--
20mm	10 to 30V dc/NPN	179-263	3,898.00	3,685.00	--	--	--
20mm	10 to 30V dc/PNP	179-264	3,860.00	3,554.00	3,363.00	3,385.00	--
20mm	20 to 253Vac/dc	372-5807	7,805.00	7,878.00	7,712.00	7,346.00	--
40mm	20 to 250V ac	176-023	8,036.00	7,474.00	7,072.00	6,820.00	--
40mm	10 to 30V dc/NPN	176-024	8,299.00	8,299.00	7,852.00	7,682.00	--
40mm	10 to 30V dc/PNP	179-265	7,210.00	6,706.00	6,345.00	6,119.00	--
40mm	20 to 253Vac/dc	372-5819	8,509.00	8,083.00	7,913.00	7,487.00	--
Switch mounting bracket			176-025	522.00	506.00	473.00	450.00

Photoswitches - Optical Proximity

Subminiature - Through-beam (Slotted) **OMRON**
EE-SPX, EE-SX Series



- (a) EE-SPX301/401: H=24, W=26, D=7, F.C.=20
- (b) EE-SPX303/403: H=26, W=26, D=7.4, F.C.=19.5
- (c) EE-SPX305/405-W2A: H=15.5, W=27.2, D=15.5, Cable L=1m
- (d) EE-SX670: H=22.2, W=25.4, D=7, F.C.=19
- (e) EE-SX671: H=15.5, W=26.2, D=14.5, F.C.=19
- (f) EE-SX672: H=22.2, W=13.4, D=26, F.C.=19
- (g) EE-SX673: H=22.2, W=13.4, D=12.8, F.C.=7

- Built-in amplifier circuitry allows direct switching of PLC and relay outputs
- Applications include robot control, cam timer switching, general position and object de-