PROXIMITY SWITCHES

Left Section

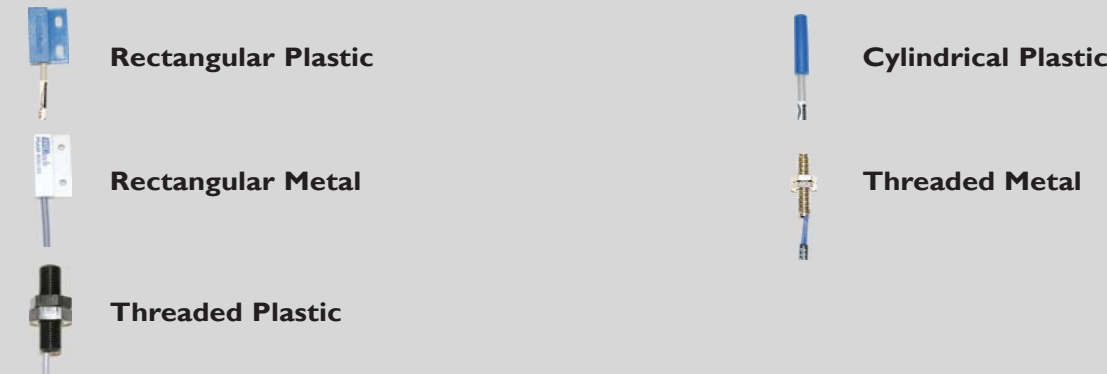|																
Options / Features	• Micro miniature	• Miniature	• Also available in all Black	• Also available in all Black	• Also available in all Black	• Also available in all Black	• Also available in all Black • White economy version available • Left and Right hand versions available	• Also available in all Black • White economy version available • Left and Right hand versions available	• Also available in all Black	• Also available in all Black				• Rugged Enclosure • Heavy Duty	• Rugged Enclosure • Heavy Duty	• Slim Design	• Electronic / Electromechanical design for direct switching	• Also available in all Black • White economy version available • Left and Right hand versions available	• Also available in all Black • White economy version available • Left and Right hand versions available
Contact Form	Normally Open				Normally Closed	Change-Over	Normally Open									Normally Closed	
Style	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
Type	PRA 30/10	S1372	PRA 100/30	PRA 240/30	PRB 130/30	PRC 175/30	MMPSA 240/30	MPSA 240/30	PSA 100/30	PSA 240/30	PSAM 240/30	PSAM 400/30	MPS4428SN	HPSA 280/30	MMPSB 130/30	MPSB 130/30
Suggested Magnet (see magnet catalogue)	PRLM	PRLM	PRM	PRM	PRM	PRM	MMPSM	MPSM	PSM	PSM	PSRM	PSRM	MP4428M	PSM	MMPSM	MPSM
Switching Capacity Max. W/VA	0.25	10	5	10	10	5	10	10	5	10	10	10	80	280	5	5
Switching Voltage Max. VAC	30	140	150	400	100	100	400	400	150	400	400	400	220	280	100	100
Switching Current Max. A	0.01	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5
Carry Current Max. A	0.02	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
Breakdown Voltage Min. VDC	150	230	200	600	150	200	600	600	600	600	600	600	800	200	200	200
Contact Resistance Max. mOhms	500	125	150	150	100	150	150	150	150	150	150	100	1.39peak (On-State (Static) dR/dt min.)		150	150
Switching Distance Min. mm	5	5	5	5	3	3	10	8	8	8	8	8	8	10	8	8
Operating Temp. Range Deg. °C	-20 +70	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-40 +105	-20 +85	-20 +85	-20 +85	-20 +85	-5 +70	-5 +70	-20 +85	-40 +105
Case Material	Black Polypropylene	Black Polypropylene	Blue Nylon 66	Blue Nylon 66	Blue Nylon 66	Blue Nylon 66	Blue Nylon 66	Glass filled Nylon	Blue Nylon 66	Blue Nylon 66	Aluminium	Aluminium	ABS	ABS	Blue Nylon 66	Glass filled Nylon
Cable	2 x 0.12mm² PTFE insulated Black	2 x 0.12mm² PTFE insulated Black	2 x Round 0.22mm² PVC insulated Blue	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / Green	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² Irradiated PVC insulated Grey	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered White	2 x Round 0.14mm² PVC covered Grey insulated White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.22mm² Irradiated PVC insulated Grey	

Right Section

Options / Features	• Standard Proximity design	• Rugged Enclosure • Heavy Duty	• Also available in all Black	• Also available in all Black • White economy version available • Left and Right hand versions available	• Also available in all Black	• Rugged Enclosure • Heavy Duty	• Slim Design	• M6 Thread	• M6 Thread	• M8 Thread	• M12 Thread	• M18 Thread	• M6 Thread	• M6 Thread	• M6 Thread	• M6 Thread
Contact Form	Normally Closed		Change-Over					Normally Open					Normally Closed		Change-Over	
Style	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded
Type	PSB 175/30	PSBM 130/30	MMPSC 130/30	MPSC 130/30	PSC 175/30	PSCM 175/30	MPS4428U	PTA 470/30	PTAP 470/30	PTA 200/30	PTA 230/30	PTA 1500/30	PTB 130/30	PTBP 130/30	PTC 130/30	PTCP 130/30
Suggested Magnet (see magnet catalogue)	PSM	PSRM	MMPSM	MPSM	PSM	PSRM	MP4428M	PRM	PRM	PRM	PTM 12	PTM 18	PRM	PRM	PRM	PRM
Switching Capacity Max. W/VA	5	5	5	5	5	5	60	10	10	60	60	120	5	5	5	5
Switching Voltage Max. VAC	100	100	100	100	100	100	230	400	400	230	230	1500	100	100	100	100
Switching Current Max. A	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	3.0	3.0	3.0	0.5	0.5	0.5	0.5
Carry Current Max. A	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	4.0	4.0	5.0	1.0	1.0	1.0	1.0
Breakdown Voltage Min. VDC	200	200	200	200	200	200	400	600	600	600	600	3000	200	200	200	200
Contact Resistance Max. mOhms	150	150	150	150	150	150	100	150	150	80	80	80	150	150	150	150
Switching Distance Min. mm	8	8	8	8	8	8	10	3	3	8	8	15	3	3	3	3
Operating Temp. Range Deg. °C	-20 +85	-20 +85	-20 +85	-40 +105	-20 +85	-20 +85	-5 +70	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85	-20 +85
Case Material	Blue Nylon 66	Aluminium	Blue Nylon 66	Glass filled Nylon	Blue Nylon 66	Aluminium	ABS	Brass-Nickel plated	Black Acetal	Black Acetal	Brass-Nickel plated	Brass-Nickel plated	Brass-Nickel plated	Black Acetal	Brass-Nickel plated	Black Acetal
Cable	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	3 x Round 0.14mm² Irradiated PVC insulated Brown / White / Green	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	3 x Round 0.22mm² PVC covered Grey and insulated Brown / White / Green	3 x Round 0.14mm² PVC covered White and insulated Brown / White	2 x Round 0.14mm² PVC insulated Blue	2 x Round 0.22mm² PVC insulated Grey	2 x Round 0.14mm² PVC covered Grey and insulated Brown / White	2 x Round 0.14mm² PVC covered Black and insulated Brown / Blue	2 x Round 0.50mm² PVC insulated Brown / White	2 x Round 0.22mm² PVC insulated Brown / White	3 x Round 0.50mm² PVC covered Black and insulated Brown / White	3 x Round 0.22mm² PVC insulated Brown / White / Green	3 x Round 0.22mm² PVC insulated Brown / White / Green

AWG to mm² Cross Reference table

AWG	mm²
30	0.05
28	0.08
26	0.14
24	0.21
22	0.34
20	0.50
18	0.75
17	1.0
16	1.5
14	2.5
12	4
10	6
8	10
6	16
4	25
2	35
1	50
2/0	70
3/0	95
4/0	120
300MCM	150
350MCM	185
500MCM	240

What type are you looking for?......................................

Magnetic Reed Switch Proximity Switches

- Rectangular Plastic
- Rectangular Metal
- Threaded Plastic
- Cylindrical Plastic
- Threaded Metal

........use this catalogue.

Magnetic Reed Switch Proximity Switches with integrated connectors

- 6mm Threaded
- 12mm Threaded
- 18mm Threaded
- Connector Cable options

........use Proximity Switches with integrated connectors catalogue.

Solid State Hall Effect (Electronic) Proximity Switches

- Rectangular Plastic
- Rectangular Metal
- Threaded Plastic
- Threaded Metal

........use Electronic Proximity Switches catalogue.

Economy Proximity Switches

- A range of Economy grade Proximity Switches
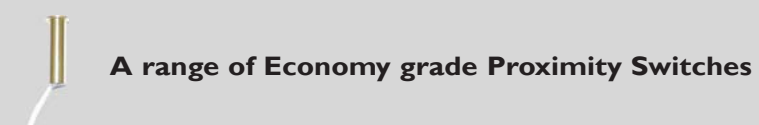
........use Economy Proximity Switches catalogue.

All dimensions are nominal, in millimetres unless otherwise stated. If further information is required, individual datasheets are available on our websites, and on CD.
As part of the groups policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on our products.

The Comus International group of companies consists of:

COMUS

Comus International
454 Allwood Road
Clifton
New Jersey 07012
U.S.A

Tel: (1)973 - 777 - 6900
Fax:(1)973 - 777 - 8405
email: info@comus-intl.com
internet: http://www.comus-intl.com

ASSEMtech

Assemtech Europe Limited
Unit 7, Rice Bridge Industrial Estate
Thorpe - Le - Soken
Essex
England
CO16 0HL
Tel: +44 (0)1255 862236
Fax: +44 (0)1255 862014
email: sales@assemtech.co.uk
internet: http://www.assemtech.co.uk

COMUS

Comus Belgium BVBA
Overhaamlaan 40
B-3700 Tongeren
Belgium

Tel: +32 (0)12 390400
Fax: +32 (0)12 235754
email: info@comus.be
internet: http://www.comus.be

COMUS

Comus International SARL
Immeuble 'Les Juilliottes
31 Cours des Juilliottes
F-94700 Maisons-Alfort
France

Tel: +33 (0)1 43 96 86 10
Fax: +33 (0)1 43 96 86 11
email: info@comus.fr
internet: http://www.comus.fr

STG

Switching Technologies Gunther
B-9, B-10, & C-1 Special Economic Zone (MEPZ)
Kadapperi
Tambaram
Chennai 600 045
India
Tel: +91 44 22628093
Fax: +91 44 22628271
email: stgltd@eth.net

COMUS

Comus Electronics and Technologies
India Private Limited
No 26, Crescent Park Street
T Nagar
Chennai 600 017
India
Tel: +91 44 42127124
Fax: +91 44 42127125
email: venkatraman@comus-intl.com
syed@comus-intl.com
internet: http://www.comusindia.com

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Proximity Switches

DESCRIPTION

Reed Proximity Switches are operated by a moving magnet and can be used to detect many directions of movement. When the magnet reaches the operate distance from the reed switch, the reed switch contacts will operate (open or close). Moving the magnet away will cause the reed switch contacts to switch back to their original position.
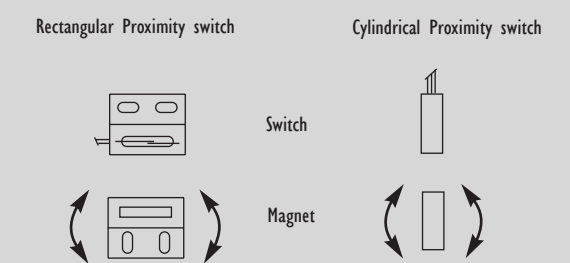
OPERATION - Perpendicular

A magnet moved perpendicularly towards and away from a switch operates the switch off and on once.
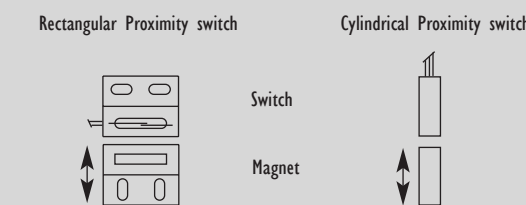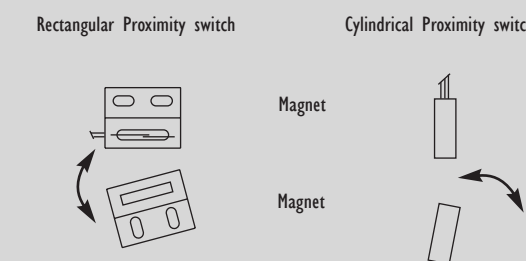
OPERATION - Rotation

A magnet rotated through 360 degrees will operate the switch contacts at least twice in one cycle.
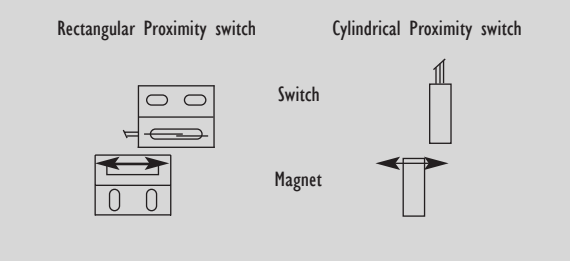
OPERATION - Swung

A magnet moved perpendicularly towards and away from a switch operates the switch off and on once.

OPERATION - Parallel

A magnet moving parallel to the switch will operate the switch contacts off and on, one to three times.

SWITCHING OR OPERATING DISTANCE

The switching distances shown in this catalogue are typical using the suggested magnets. The distance can be changed by using a different magnet. Contact Sales Office for further details.

Contact Protection
Further information on contact protection and the effects of Inductive and Capacitive loads is detailed in the Reed Switch Catalogue. Contact our sales office for your free copy.

Electrical Loads
Switch ratings are normally specified for AC resistive loads. Inductive and fast switch cycles will affect the life of the switch. The electrical life expectancy of a reed switch is typically at least 1 million operations at nominal load. Mechanical life is 100 million operations. See reed switch catalogue for more information.

All dimensions are nominal, in millimetres unless otherwise stated. If further information is required, individual datasheets are available on our websites, and on CD.
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