

Input (LED) $I_f = 30\text{mA}$, $V_{fwd} = 1.5\text{V}$
 Output $I_c = 4\text{mA}$, $V_{cc} = 25\text{V}$, $V_{sat} = 0.6\text{V}$
 Operate/Release angles
 N.O. type = Operate $35^\circ \pm 5^\circ$, Release $20^\circ \pm 5^\circ$
 N.C. type = Operate $55^\circ \pm 5^\circ$, Release $40^\circ \pm 5^\circ$
 Tilt function
 N.O. type = Omni-directional
 N.C. type = Bi-directional

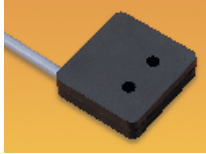
SEN289

Contacts	Mfrs. List No.	Order Code	Price Each			
			1+	25+	50+	100+
Normally Open	TILTNO	722-0194				
Normally Closed	TILTNC	722-0200				

Non-Mercury



540-614
 L = 10.2, Dia. = 4.7, Leads
 L = 12, Dia. = 0.51,
 Lead spacing = 2.9



730-221
 H = 25.0, W = 27.0, D = 7.0,
 Fixing centres = 10.0 (Dia 3.3)
 Cable L = 300



732-825
 L = 30, W = 20, D = 7,
 Cable L = 300
 Fixing slots = 6 3.3,
 Fixing centres = 16.0

- Hermetically sealed tilt switches using non-toxic materials
- 540-614 is designed to meet a wide range of low level switching applications
- 730-221 will switch up to 10VA
- 732-825 has fixing slots for fine adjustment in alignment
- Suitable for safety and security systems, limit, position and level sensing

	540-614	730-221	732-825
Switching voltage	60V ac	240V ac	60V ac
Switching current	0.25A	0.50A	0.25A
Switch power	3VA	10VA	3VA
Contact resistance, max	30Ω	150mΩ	30Ω
Max. differential angle	15°	90°	16°
Max. 'break' angle above horizontal	10°	45°	10°
Max. 'make' angle below horizontal	10°	45°	10°
Operating temperature	-40°C to +150°C	-20°C to +70°C	-20°C to +70°C

SEN128X

Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	1000+
CW1300-1	540-614				
MTA 240	730-221				
TSW30/60	732-825				

Tilt Switch, Non-Mercury



L = 5.6mm, Body dia. = 3.55mm,
 Lead centres = 5.4mm,
 Lead dia. = 0.5mm

Contacts can be open or closed depending on switch position.

Switching voltage	60V ac	Contact resistance	100mΩ
Switching current	0.1A	Operating temperature	-37°C to +100°C
Switching capacity	3VA	Case material	Steel Tin Plated
Max. differential angle	15°		

SEN372

Mfrs. List No.	Order Code	Price Each		
		1+	50+	200+
CW1600-3	309-4765			

Tilt Switch, Non-Mercury



L = 28mm, Body dia. = 6mm
 Cable = 150mm, 2 0.14

- Can also be used as a motion switch
- Non-mercury contacts

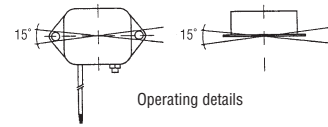
Contacts can be open or closed depending on switch position.

Switching voltage	60V ac	Contact resistance	100mΩ
Switching current	0.1A	Operating temperature	-37°C to +100°C
Switching Capacity	3VA	Case material	Polypropylene
Max. differential angle	15°		

SEN369

Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	250+
CW60S/15	309-4777				

Tilt Sensor Module Non-Mercury



H = 20.3, W = 38 (body), 60 (overall), D = 32,
 Fixing centres = 50.8 (Dia. = 4.7), Cable L = 300
 Connections: Brown = 5V, Green = 0V, White = Output

- Module incorporates Assemtech CW1300-1 non-mercury tilt switch
- Module has de-bouncing circuit to minimise vibration effect which may occur during tilt detection
- Potentiometer adjustment will trim out most low frequency vibrations which may be inherent in the installation
- Sealed tilt sensor has differential angle of 15°
- Output signals are logic levels that can be used to drive a transistor if required
- Unit is fully encapsulated

Supply voltage	5V dc	Operating temperature	-10°C to +70°C
Supply current	40mA max.	Differential angle	15° max.
Output	24mA @ 5V dc		

SEN360

Mfrs. List No.	Order Code	Price Each			
		1+	10+	25+	100+
CW60A/30	723-0436				

Tilt/Movement



L = 10.2, Dia = 4.7, Leads L = 11,
 Dia = 0.46, Lead spacing = 1.5

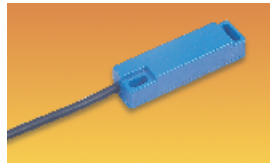
Switching current	250mA	Operating modes	Max. 'break' 15° above horizontal Max. 'make' 5° below horizontal
Switching voltage	24V	Operating temperature	-35°C to +105°C
Contact resistance	3Ω @ 3V, 1mA		

WARNING: THIS SWITCH SHOULD NOT BE OPENED AS IT CONTAINS MERCURY, A TOXIC SUBSTANCE

SEN53X

Mfrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	1000+
CM13R-0	178-338					

Surface Mounting



176-794: L = 47, W = 12, D = 11, Lead L = 300,
 Fixing slots-6 3.2 Fixing centres = 39 3



607-265: L = 30, W = 20, D = 7, Pin L = 20,
 Fixing slots = 6 3.3. Fixing centres 16

- Encapsulated mercury switches for surface mounting applications
- Fixing slots allow for fine adjustment in alignment

176-794 is fitted with 300mm 2-core PVC insulated cable.

607-265 has two 20mm wire leads and has transparent housing giving visual indication of switch position.

Switch Current	1A max. 0.25A max.	Switch Voltage	240V rms max. 240V rms max.	Switch Power	100W max. 10W/VA	Contact Resistance	0.30Ω 0.25Ω	Order Code	176-794 607-265
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WARNING: THESE SWITCHES SHOULD NOT BE OPENED AS THEY CONTAIN MERCURY, A TOXIC SUBSTANCE

SEN176X

Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	250+
S1039	176-794				
TSM4/240	607-265				

Continued