

Mobrey Squitch-2

Ultrasonic liquid level switch

Data sheet
IP207

- No moving parts
- Simple 2 wire installation
- Mount in any position
- LED status indicator
- 316 Stainless steel wetted parts
- Works in most liquids

Description

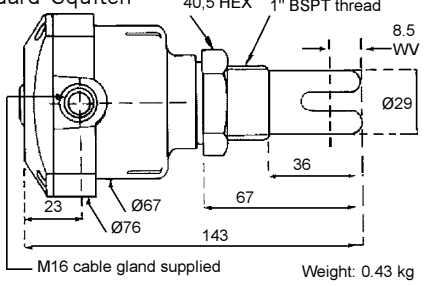
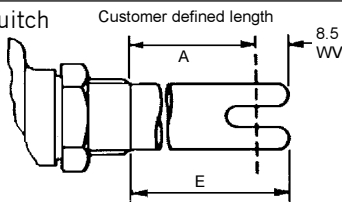
A compact, self contained ultrasonic liquid level switch with 316 stainless steel wetted parts and 240V switching capability. Squitch is a '2 wire' product - that is, it requires only 2 electrical connections, using standard instrument wire. The Squitch is connected in series with the load (contactor, starter, relay, etc.) and acts as a simple switch, operated by liquid presence.

Squitch may also be interfaced directly to a PLC using simple instrument cable. For this purpose, a PLC terminal is provided in the housing.

Options

Squitch is available with a wide variety of mounting options including threads, flanges and hygienic couplings. See ordering information overleaf for full details.

Specification

		Dimensions
Wetside material	Stainless steel 316	Standard Squitch 
Dryside material	Glass filled nylon, housing yellow, end cap black	
Protection class	IP66/IP67 Housing is rotatable 330° on sensor	Extended Squitch 
Max. operating pressure	70 bar between - 40°C to + 50°C 52 bar at +125°C	
Max. operating temp	+ 125°C wetside	WW = switching point, Squitch-2 mounted vertical Specify dims. A & E when ordering: E = A+8.5mm (max. E = 3000mm, min. E = 110mm)
Min. operating temp	- 40°C wetside	
Max. ambient	+ 50°C up to 125°C wetside	
Power supply	24V - 240V DC or AC (50-60Hz)	
Cable entry	Via M16 cable gland supplied	
Terminals	2.5mm ² wire size	
Max. switched load	500mA continuous	
Min. switched load	7.5mA continuous (see voltage drop)	
Max. peak load	5 A for 40ms max	
Current drawn: load off:	<4.5mA continuous	
Voltage drop	4.5V @ 500mA 10V @ 7.5mA	
Time delay/response	1 S wet to dry 150mS dry to wet (water)	
Switching hysteresis	± 1mm	
Viscosity	5000cs max (at 25°C)	

Operation

Squitch may be set on site with a selector switch to energise on either wet or dry.

When Squitch is "off" a small current of less than 4.5mA is drawn through the load and a red LED viewed through a window in the end cover will flash approximately once per second.

When Squitch is "on", the full load current (0.5A max.) flows, and the L.E.D is on constantly. In this way there is always an indication that Squitch is "alive and well".

Squitch may be installed in any position in the vessel.



Ordering Information

Code	Product									
8	Squitch									
	Code	Size								
	1	4" Flange								
	2	DN65 Flange								
	3	1"								
	4	1.5" (or 38mm) & DN40								
	5	2" (or 51mm)								
	6	3" Flange								
	7	DN50								
	8	DN80								
	9	DN100								
	A	Mobrey A Flange								
	G	Mobrey G Flange								
	Code	Fitting								
	0	BSPT								
	4	BSPP Outside fitting								
	5	NPT Outside fitting								
	7	Tri-Clover clamp								
	9	SMS hygienic fitting								
	B	Flange # 150 RF								
	C	Flange PN10/16 RF								
	Code	Material								
	SD	316 St. Steel								
	Code	Enclosure								
	S	Yellow Squing housing								
	Code	Use								
	0	Safe area use only (see note below)								
	Code	Output								
	0	Direct load switching (24-240V ac/dc)								
	Code	Finish								
	0	Electropolish or glass bead on flanged/ extended length models								
	P	Polish to 0.4 um (500mm max. on extended length models)								
	Code	Material Certs :								
	0	Typical (on request only)								
	1	3.1B Certs.								
	Code	Length :								
	E****	Extended length. (3000mm max.) 1" & flange only								
	L	Fixed length. E = 91mm								
	Code									
	M****	Modified standard product								
	X****	Special product.								
8	3	0	SD	S	0	0	0	0	E2000	Typical part number

Accessories

Adjustable clamp gland Max. operating pressure: 1.3 bar Max. operating temp.: 125°C	SK304 For use with 1" thread extended length Squitch Manufactured from 316SS with a silicone rubber clamp seal. Allows Squitch to be adjusted to optimum operating level and clamped in place.
Tri-clover mounting kit Max. operating pressure: Max. operating temp:	SK266 For use with Tri-clover Squitch type 757 Comprises vessel fitting and clamp ring in 316SS plus Viton seal

Note: Standard Squitch can NOT be used in a hazardous area.

For hazardous area use, select the Mobrey Electrosensor model (332SDSO typical model number) from the comprehensive range of gap sensor systems detailed in data sheet IP201

Solartron Mobrey Limited

158 Edinburgh Avenue Slough Berks England SL1 4UE
Tel: 01753 756600 Fax: 01753 823589
e-mail: sales@solartron.com www.solartronmobrey.com



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Solartron Mobrey GmbH	Deutschland	tel: 0211/99 808-0
Solartron Mobrey Ltd	China	tel: 021 6353 5652
Mobrey sp z o o	Polaska	tel: 022 871 7865
Solartron Mobrey AB	Sverige	tel: 08-725 01 00
Mobrey SA	France	tel: 01.34.30.28.30
Solartron Mobrey SA-NV	Belgium	tel: 02/465 3879
Solartron Mobrey	USA	tel: (281) 398 7890

