

# PADDLE FLOW SWITCH FOR LIQUIDS

## FS25R – WEATHER PROOF FS25X – EXPLOSION PROOF

Easy installation into existing pipe  
 For a wide range of pipe size from diameter 25 to 200  
 Reed switch provide a SPST or SPDT contact function  
 Max. pressure rating 1500 psi (st. steel)

### Technical Data

**Operation Temperature:** -30~+120°C  
**Reed Switch:** 250VAC 1A (SPST) (Flow ON) / 125VAC 1A (SPDT)  
**Carrying Current:** 1A  
**Wire Conduit:** ½" NPTF  
**Protection Class:** FS25R: Weather Proof type  
 FS25X: Explosion Proof type  
**Material:** Housing– Aluminum alloy (SS316 available for FS25X);  
 Body– SS316+Teflon; Plate– Stainless Steel 301  
**Optional:** other materials available upon request

**CAUTION.**  
 If using the FS25 for the Emergency Shower, Please contact with the manufacturer at the first!

**Ex d IIB + H2 T6**  
 工研院字號認證審核中  
 ITRI/Taiwan certificate examining



Pipe Size	Flow Rates Required to Actuate, Deactuate (m³/h) Water at 25°C		Process Connection NPT
	Actuate (ON)	Deactuate (OFF)	
1"	1.4	1.05	1"
1¼"	1.45	1.1	1"
1½"	1.5-2	0.9-1.5	1"
2"	3-4	2-4	1"
2½"	4-5	3-4	1"
3"	6-7	5-6	1"
4"	10-14	5-10	1"
6"	20-30	12-17	1"
8"	30-35	25-30	1"

**NOTE.**  
 The Flow Rate Table is only for reference.  
 Please consult with manufacturer for the accurate flow rate if necessary.

### Dimensions—mm

**FS25R**  
 Head Type: HN  
 Material: Aluminum alloy  
 Protection: IP68

**FS25X-XDS/XDA**  
 Head Type: XDS: SS316; XDA: Aluminum alloy  
 EC certificate no.: BSI 07 ATEX 1532458U  
 ATEX directive code: II 2 G D  
 Standard code: Ex d IIC T6, Ex td A21 T100°C IP68  
 FM Approvals: XP/1/1/ABCD/T6; DIP/II, III/1/EFG/T6; Type 4X Explosionproof for Class I, Division 1, Groups A,B,C and D; and dust-ignitionproof for Class II, III Division 1, Groups E,F and G, hazardous (classified) locations; indoor/ outdoor (NEMA Type 4X).

**FS25X-ES/EA**  
 Head Type: ES: SS316; EA: Aluminum alloy  
 Protection: II 2 GD Ex d IIB+H2 Gb T6  
 Ex tb IIIC Db T85°C; IP68

### Ordering Information

FS25	Code	Type
	R	Weather Proof      X      Explosion Proof
		Code      Head Type
		(1) HN (only for FS25R) (2) XDS (3) XDA (4) ES (5) EA (6) option
		Code      Process Connection
		(A) 1"NPT(M), standard (O) option
		Code      Conduit Size
		(1) ½"NPT(F), standard (2) option
		Code      Power Supply
		SPST      250VAC 1A (SPST) (Flow ON)      SPDT      125VAC 1A (SPDT)
FS25		Complete Ordering Code