

# 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

Service: For "Non-Corrosive" liquid fluid available Please see the notice of "Reminder before ordering".

Operation Temperature: -30~+120°C

Reed Switch: SPST: 250VAC, 100VDC, 10VA (max.) (Flow ON);  
 SPDT: 150VAC/DC, 20VA (max.)

Carrying Current: 1A (max.)

Wire Conduit: 1/2" NPTF, 3/4" NPTF, and option available

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

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.



### Approvals:

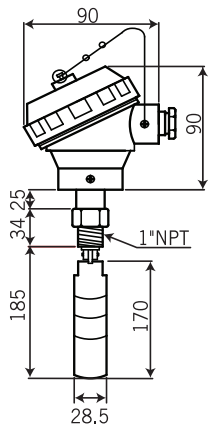
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 (ITRI)2017第07-00104號

Switches with Intertek Test Report, refer to UL508 Standard.

### Dimensions—mm

#### FS25R

Head Type: HN/  
 Aluminum alloy  
 Protection: IP68



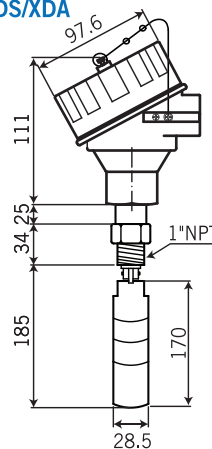
#### FS25X-XDS/XDA

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/II/1/ABCD/T6; DIP/II, III/1/EFG/T6;  
 Type 4X Explosion proof 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).

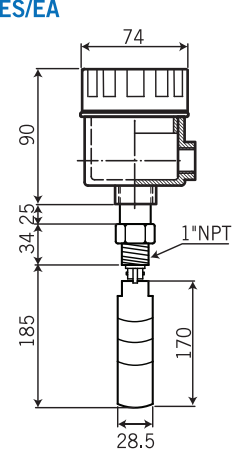
#### FS25X-ES/EA

Head Type: ES: SS316; EA: Aluminum alloy  
 Protection: Ex d IIB + H2 T6 Gb

#### XDS/XDA



#### ES/EA



### Ordering Information

FS25	Code	Type
	R	Weather Proof X Explosion Proof
		Code Head Housing Type
		(1) HN (only for FS25R) (2) XDS (3) XDA (4) ES (5) EA (O) option
		Code Process Connection
		(A) 1" NPT(M), standard (O) Option
		Code Conduit Size – Female
		(1) 1/2" NPT, standard (2) 3/4" NPT (O) Option
		Code Reed Switch Rating
		SPST 250VAC, 100VDC, 10VA (max.) (Flow ON) SPDT 150VAC/DC, 20VA (max.)
		Code Explosion Proof Type / Head Housing Type
		N For Weather proof type, FS-25R
		B Taiwan Explosion Proof Certification / ES & EA: Ex d IIB + H2 T6 Gb
		S Certificate on Housing Only / XDS & XDA: Class I, Groups A, B, C & D; Class II, Groups E, F & G; NEMA 4X

**Reminder before ordering:**  
 In general, We DON't recommend using FS25 for the seawater application! But, if it is necessary, please let us know before placing an order, we can customize the special magnet with lining to match up!

FS25 [ ] [ ] [ ] [ ] [ ] [ ] Complete Ordering Code