

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 (Not recommend using in the seawater.)

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: ½" NPTF, ¾" 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:



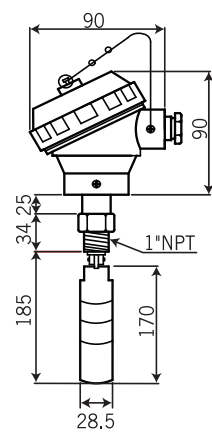
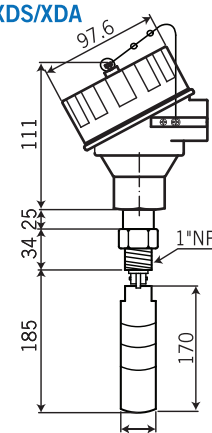
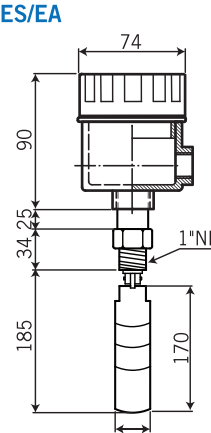




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 Switches with Intertek Test Report, refer to UL508 Standard.

Dimensions—mm

<p>FS25R Head Type: HN/ Aluminum alloy Protection: IP68</p> 	<p>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).</p>	<p>XDS/XDA</p> 	<p>ES/EA</p> 
<p>FS25X-ES/EA Head Type: ES: SS316; EA: Aluminum alloy Protection: Ex d IIB + H2 T6 Gb</p>			

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 (0) option		
	Code	Process Connection		
		(A) 1" NPT(M), standard (O) Option		
	Code	Conduit Size – Female		
		(1) ½" NPT, standard (2) ¾" 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 B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9			
FS25				Complete Ordering Code