

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

Carrying Current: 1A (max.)

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

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.



FS25R

FS25X



Ex d IIB + H₂ T6 Gb
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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/I/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).	XDS/XDA ES/EA
FS25X-ES/EA Head Type: ES: SS316; EA: Aluminum alloy Protection: Ex II 2 GD Ex d IIB+H ₂ 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	Reed Switch Rating		
	SPST	250VAC, 100VDC, 10VA (max.) (Flow ON)	SPDT	150VAC/DC, 20VA (max.)
	Code	Housing Type / Explosion Proof		
	N	Weather proof type (only for FS-25R)		
	B	ES & EA /EC-Type Examination: ITRI/Taiwan, Ex d IIB + H ₂ T6 Gb		
	D	ES & EA /IECEx Certificate on Housing Only: Ex d IIB+H ₂ Gb T6/Ex tb IIIC Db T85°C		
	S	XDS & XDA /Certificate on Housing Only: II 2 G D, Ex d IIC T6, Ex tD A21 T100°C; IP68		
FS25				Complete Ordering Code