

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: 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.



Extension Arm Type

FS25R

FS25X

Approvals:

Switches with Intertek Test Report, refer to UL508 Standard.

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Dimensions—mm

<p>FS25R Head Type: HN/ Aluminum alloy Protection: IP68</p>	<p>FS25X–XDS/XDA Head Type: XDS: SS316; XDA: Aluminum alloy ATEX Approvals: II 2G D Ex db IIC Gb Ex tb IIIC Db 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>FS25X–ES/EA Head Type: ES: SS316; EA: Aluminum alloy Protection: Ex d IIB + H2 T6 Gb</p>	<p>XDS/XDA</p>	<p>ES/EA</p>
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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 (B) Extension Arm Type (Length L: Specify by user) (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: II 2G D Ex db IIC Gb Ex tb IIIC Db
FS25		Complete Ordering Code

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!