

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





Extension Arm Type

Approvals:


 ABS
 TYPE APPROVED PRODUCT


 CE


 TD0400TJ
 工電(2016)第00428號
 (ITRI)2017第07-00104號


 ETL
 Intertek

Switches with Intertek
 Test Report, refer to
 UL508 Standard.

FS25R FS25X

| Pipe Size | Flow Rates Required to Actuate, Deactuate (m ³ /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/
 Aluminum alloy
Protection: IP68

FS25X-XDS/XDA
Head Type: XDS: SS316; XDA: Aluminum alloy
ATEX Approvals: II 2G D
 Ex db IIC T6 Gb
 Ex tb IIIC T100°C Db
FM Approvals: XP/II/1/ABCD/T6; DIP/II, III/1/EF/G/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 (0) 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: Class I, Groups A, B, C & D; Class II, Groups E, F & G; NEMA 4X |
| 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!