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)

FS25R FS25X

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 (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.

Approvals:

TYPE APPROVED PRODUCT

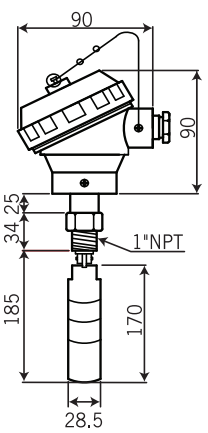
TD0400TJ
工電(2016)第00428號
(ITRI)2017第07-00104號

Intertek — Switches with Intertek Test Report, refer to UL508 Standard.

Dimensions–mm

FS25R

Head Type: HN/ Aluminum alloy
Protection: IP68



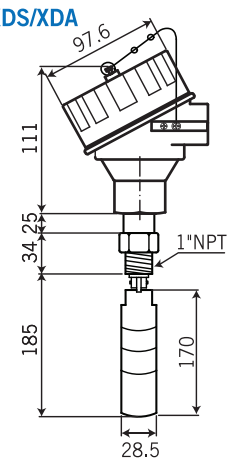
FS25X–XDS/XDA

Head Type: XDS: SS316; XDA: Aluminum alloy
ATEX Approvals: II 2G D
Ex db IIC T6 Gb
Ex tb IIIC T100°C Db
FM Approvals: XP/I/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).

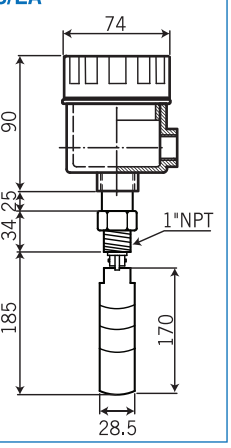
FS25X–ES/EA

Head Type: ES: SS316; EA: Aluminum alloy
Protection: Ex d IIB + H_2 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) 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 + H_2 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