

FS25

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: 1/2" NPTF, 3/4" 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

Flow Rate Table

– For Standard Type:

Pipe Size	Flow Rates Required to Actuate, Deactuate (m³/h) Water at 25°C		Process Connection NPT
	Actuate (ON)	Deactuate (OFF)	
1"	1.4 m³/h	1.05 m³/h	1"
1¼"	1.45 m³/h	1.1 m³/h	1"
1½"	1.5-2 m³/h	0.9-1.5 m³/h	1"
2"	3-4 m³/h	2-4 m³/h	1"
2½"	4-5 m³/h	3-4 m³/h	1"
3"	6-7 m³/h	5-6 m³/h	1"
4"	10-14 m³/h	5-10 m³/h	1"
6"	20-30 m³/h	12-17 m³/h	1"
8"	30-35 m³/h	25-30 m³/h	1"

– For add Tee Type:

Tee Fitting	Flow Direction	Flow Rates Required to Actuate, Deactuate (L/H) Water at 25°C	
		Actuate (ON)	Deactuate (OFF)
1"NPT	Vertical	583-585 L/H	523-527 L/H
	Horizontal	398-399 L/H	283-284 L/H

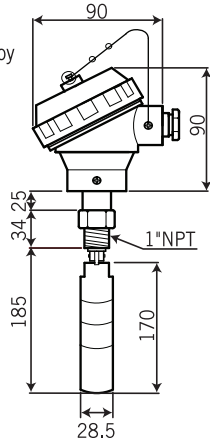
NOTE.

The Flow Rate Table is only for reference.
 Please consult with manufacturer for the accurate flow rate if necessary.

Dimensions

FS25R

Head Type: HN/ Aluminum alloy
 Protection: IP68



unit=mm

FS25X- XDS/XDA

Head Type: XDS: SS316; XDA: Aluminum alloy

ATEX Approvals: II 2G D

Ex db IIC Gb
 Ex tb IIIC Db

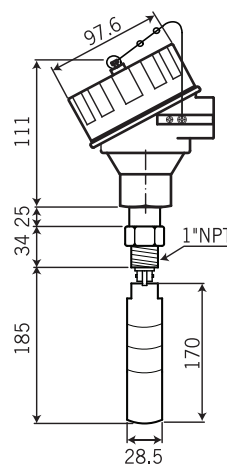
FM Approvals: XP/II/1/ABCD/T6; DIP/II, III/1/EFG/T6;
 Type 4X Explosion proof for Class I, Division 1, Groups A, B, C and D; and dust-ignitionproof for Class II, III Division 1, Groups E, F and G, hazardous (classified) locations; indoor/outdoor (NEMA Type 4X).

FS25X- ES/EA

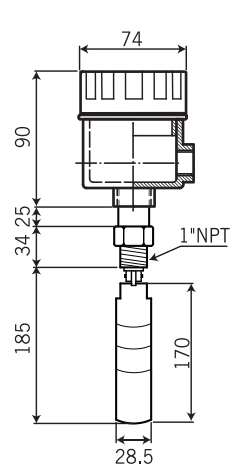
Head Type: ES: SS316; EA: Aluminum alloy

Explosion Proof: (Taiwan Explosion Proof Certification)
 Ex d IIB + H2 T6 Gb

XDS/XDA Head



ES/EA Head



Approvals:



Switches with Intertek Test Report, refer to UL508 Standard.

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