

PADDLE FLOW SWITCH FOR LIQUIDS

AI.FS25 Series



EXTENSION ARM TYPE

FS25R

FS25X



DESCRIPTION

Easy installation into existing pipe for a wide range of pipe size from diameter 25 to 200 reed switch provide a SPDT contact function max. pressure rating 1500 psi (st. steel)

TECHNICAL DATA

Operation temperature: -30 / +120°C

Reed switch: 250VAC/DC 60W/VA

Carrying Current: 1A

Wire conduit: 1/2" NPTF

Protection Class: FS25R: weather proof type
FS25X: explosion proof type

Material: Housing - Alluminium alloy (SS316 available for FS25X)

Body - SS316+Teflon

Plate - Stainless Steel 301

Optional: other materials available upon request

CAUTION: if using the AI.FS25 for the Emergency Shower, please contact with the manufacturer at the first!

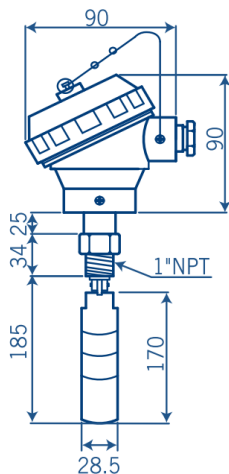
FLOW RATE TABLE

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"

DIMENSIONS - mm

FS25R

Head Type: HN/
Aluminum alloy
Protection: IP68



FS25X-XDS/XDA

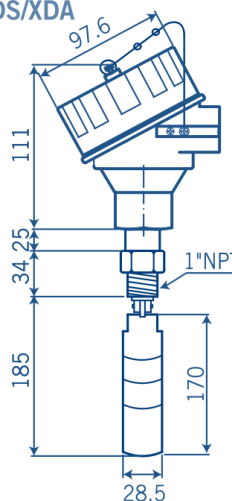
Head Type: XDS: SS316; XDA: Aluminum alloy
ATEX Approvals: II 2G D

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).

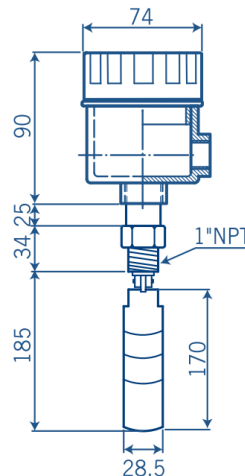
FS25X-ES/EA

Head Type: ES: SS316; EA: Aluminum alloy
Protection: Ex d IIB + H2 T6 Gb

XDS/XDA



ES/EA



ORDERING INFORMATION

FS25	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 (<i>Length L: Specify by user</i>) (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 T ₆ 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
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Company with
Certificate of Quality
System ISO 9001:2015
Cert n°38785/19/S