Type F3.05
No-Flow Switches

The Type F3.05 No-Flow Switches offer reliable pump protection. They open an electrical circuit when flow velocity decreases below 0.15 m/s (0.5 ft./sec.) and are not adjustable. The unique Halar® paddle wheel design is not available from other manufacturers.

Body Materials:	CPVC, PVDF, 316L Stainless Steel, Brass
Rotor:	ECTFE (Halar®)
Shaft & Bearings:	Ceramic
Seals:	EPDM, Viton®
Pipe Sizes:	1/2"– 24" in two sensor lengths, L0 or L1 See Installation Fittings (pages 38–41)
Velocity Trip Point:	0.15 m/s (0.5 ft./sec.) not adjustable. The normally open contact closes after a delay of 2 seconds.
Visual Flow Indication:	Bicolour LED Red = No Flow, Green = Flow
Relay Output:	Mechanical SPST contact, No Flow = open contact 1A @ 24 VDC, 0.5A @ 125 VAC, 0.1A @ 230 VAC

Features

- **Reliable Pump Protection** – Typical applications are to protect a pump from running dry or pumping against a closed valve in the main pipe.
- **Visual Flow Indication** – Red/green bicolour LED

Technical

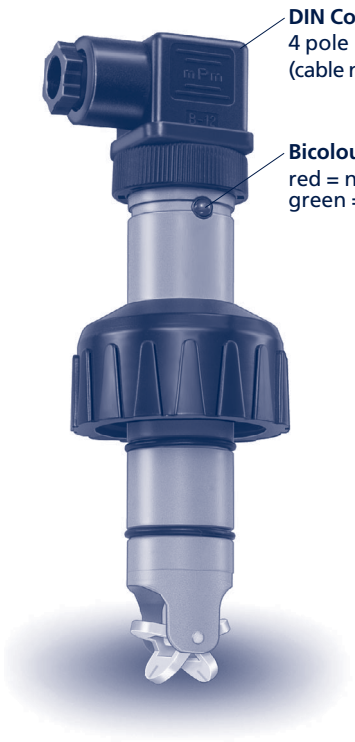
Supply Voltage:	12 to 24 VDC, regulated
Current Consumption:	< 50 mA
Electrical Class:	NEMA 4, 4X (IP65) 4-pole DIN 43650
Maximum % Solids:	10% with particle size not exceeding 0.5 mm cross section or length
Max. Operating Pressure/Temperature:	See chart on page 45

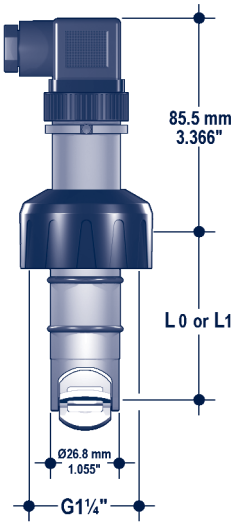
Installation Guidelines

- See page 43 for preferred installation positions. No minimum length of straight pipe is required.

Item Numbers

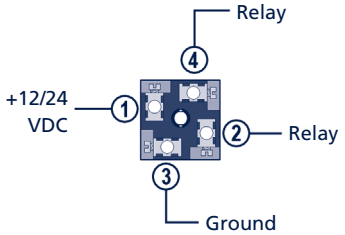
- See page 24





L0 = 68.3 mm (2.69")
L1 = 98.5 mm (3.88")

Wiring



Item Numbers
Flow Switches and Blind Transmitters

Digiflow® FLOW X3

■ No-Flow Switches See page 19

Type F3.05

Electrical Class	O-Ring	Sensor Length	Item No.		
			CPVC	PVDF	316L SS
NEMA 4, 4X (IP65)	EPDM	L0	F3.05.H.01	F3.05.H.05	F3.05.H.09
	Viton®	L0	F3.05.H.02	F3.05.H.06	F3.05.H.10
	EPDM	L1	F3.05.H.03	F3.05.H.07	F3.05.H.11
	Viton®	L1	F3.05.H.04	F3.05.H.08	F3.05.H.12

■ Adjustable Flow Switches See pages 20 and 21

Type F3.15

Electrical Class	O-Ring	Sensor Length	Item No.			
			CPVC	PVDF	316L SS	Brass
NEMA 4, 4X (IP65)	EPDM	L0	F3.15.H.01	F3.15.H.05	F3.15.H.09	F3.15.H.13
	Viton®	L0	F3.15.H.02	F3.15.H.06	F3.15.H.10	F3.15.H.14
	EPDM	L1	F3.15.H.03	F3.15.H.07	F3.15.H.11	F3.15.H.15
	Viton®	L1	F3.15.H.04	F3.15.H.08	F3.15.H.12	F3.15.H.16

Type ULF3.15

Electrical Class	Flow Trip Point (l/hr)	Item No.		
		POM† / Viton®	ECTFE* / Viton®	ECTFE* / Kalrez®
NEMA 4, 4X (IP65)	1.5 – 21	ULF3.15.01.0	ULF3.15.01.2	ULF3.15.01.3
	6 – 53	ULF3.15.03.0	ULF3.15.03.2	ULF3.15.03.3

■ Flow Transmitters See pages 22 and 23

Type F3.30

Electrical Class	O-Ring	Sensor Length	Item No.			
			CPVC	PVDF	316L SS	Brass
NEMA 4, 4X (IP65)	EPDM	L0	F3.30.H.01	F3.30.H.05	F3.30.H.09	F3.30.H.13
	Viton®	L0	F3.30.H.02	F3.30.H.06	F3.30.H.10	F3.30.H.14
	EPDM	L1	F3.30.H.03	F3.30.H.07	F3.30.H.11	F3.30.H.15
	Viton®	L1	F3.30.H.04	F3.30.H.08	F3.30.H.12	F3.30.H.16

Type ULF3.30

Electrical Class	Flow Range (l/hr)	Item No.		
		POM† / Viton®	ECTFE* / Viton®	ECTFE* / Kalrez®
NEMA 4, 4X (IP65)	1.5 – 100	ULF3.30.01.0	ULF3.30.01.2	ULF3.30.01.3
	6 – 250	ULF3.30.03.0	ULF3.30.03.2	ULF3.30.03.3

† POM = "Polyoxymethylene". * ECTFE is also referred to as "Halar®".