differential pressure switches
ATEX flameproof enclosure

PED 2014/68/EU

II 2 GD Ex db IIC T6 Ex tb IIIC T85°C

Certificate : 0425 ATEX 2634

These flameproof electrical apparatus comply with European Directive ATEX 2014/34/EU, for group II and category 2 GD. They are suitable for a variety of uses in hazardous zones 1, 2, 21 and 22 in which the use of flameproof instrument is required. The sensing element is a metallic diaphragm with 2 metallic bellows and acts directly on the microswitch through a self-centering pivot. The simplicity of the design, without levers, cams or similar mechanisms, gives the unit an exceptionally long working life.

3.49 - Standard Model

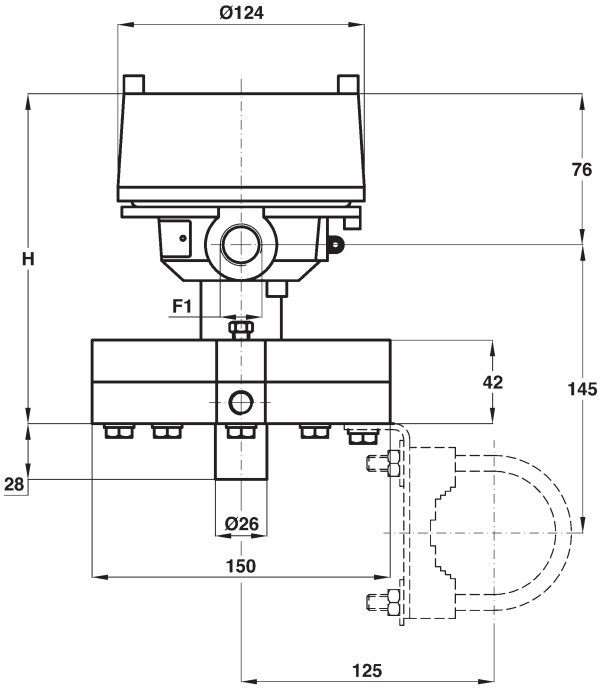
Type of ignition protection as per EN 60079-0 and EN 60079-1: **Ex db IIc T6 Ex tb IIIC T85°C**.
Protection: IP 65 as per IEC 529.
Ranges: 0...250 mbar/0...600 mbar.
Electrical specifications: N. 1...2 SPDT microswitches, or N. 1 with adjustable differential. (see microswitches table)
Differential: fixed.
Repeatability: ≤ 1% of the full setting value.
Set-point adjustment: internal, micrometric adjustable.
Earth contacts: N. 1 internal, N. 1 external.
Process fluid temperature: *-4...+140°F* (-20...+60 °C).
Ambient temperature: *-4...+149°F* (-20...+65 °C).

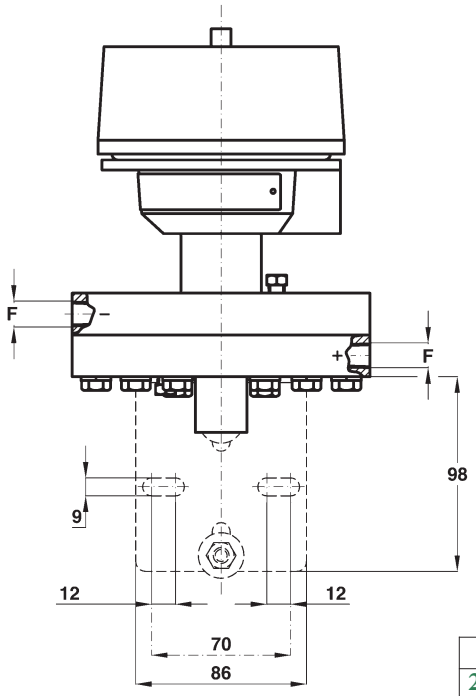
Thermal drift: ≤ *0,027% / °F* (≤ 0,05% / °C).
Process connection: AISI 316 st.st.
Elastic element: AISI 316 st.st. diaphragm with N. 2 AISI 316 Ti bellows; VITON gasket.
Case: aluminium, blue polyurethane painted.
Cover: aluminium, beige polyurethane painted.
Tag: AISI 304 st.st., silk-screen painted.
Tell-tale vents: polypropylene.
Flushing plugs: AISI 316 st.st.
Weight: *14.77 lbs* (6,7 kg).

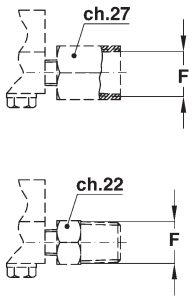
Setting ranges	One side static pressure	Both side static pressure	Differential 1 micro (1)	Differential 2 micro (1)
20...250 mbar	2,5 bar	4 bar	10 mbar	15 mbar
25...400 mbar	4 bar	4 bar	16 mbar	20 mbar
35...600 mbar	4 bar	4 bar	20 mbar	30 mbar

(1) differential and minimum set-point values for microswitches cod. I, L, N, R, S, T, U, V are 300% of those shown in table.

RG - 05/14





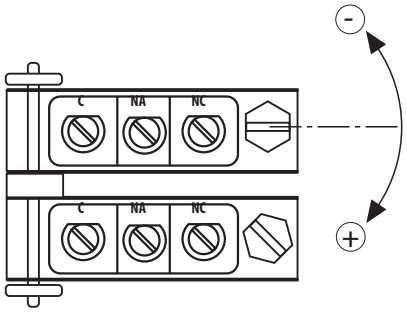


F1
1 - R 1/2-ISO 7/1
2 - R 3/4-ISO 7/1
3 - 1/2-14 NPT
4 - 3/4-14 NPT
A - M20 x 1,5

F
21F - G 1/4
23F - 1/4-18 NPT
43F - 1/2-14 NPT
43M - 1/2-14 NPT M

dimensions : *inches* (mm)

Set- point adjustment



MICROSWITCHES
ohmic load

Single / Double	Type	250 Vac	125 Vac	24 Vdc
C / D	std.	**15A**	**15A**	0,1A
G / H	SPLASH	**15A**	**15A**	0,1A
I / L	goldplated		**1A**	0,1A
M / P	inert gas filled	**15A**	**15A**	0,1A
N / R	goldplated and inert gas filled		**1A**	0,1A
S / T	SPLASH VDC	15A	15A	**2A**
U / V	inert gas filled VDC	15A	15A	**2A**

"HOW TO ORDER" SEQUENCE

Section / Model / Set-point Adjustment / Microswitch / Electrical connection / Process connection / ATEX / Options

3	49	C, D, G, H	1	21F	2D2
		I, L, M, P	2	23F	
		N, R	3	43F	
		S, T, U, V	4	43M	
			A		

IN ORDER TO IMPROVE THEIR PRODUCTION, MESSRS. NUOVA FIMA RESERVE THE RIGHT TO THEMSELVES TO MAKE ALL THE MODIFICATIONS THAT THEY DEEM INDISPENSABLE AT ANY TIME. UPDATED DATA-SHEETS ARE AVAILABLE ON SITE. www.nuovafima.com

Copyright © Nuova Fima srl. All rights reserved. Any part of this publication should not be reproduced without a written Nuova Fima's srl approval

NUOVA FIMA USA Inc.
www.nuovafima.com - e-mail: infousa@nuovafima.com
4123 Hollister, Suite G - TX 77080 Houston
TEL. +1 713.690.9800 - FAX +1 713.690.9803

NUOVA FIMA srl
www.nuovafima.com - e-mail: info@nuovafima.com
P.O. BOX 58 - VIA C. BATTISTI 59 - 28045 INVORIO (NO) ITALY
TEL. +39 0322 253200 - FAX +39 0322 253232