

FLAMEPROOF PRESSURE SWITCH-PISTON

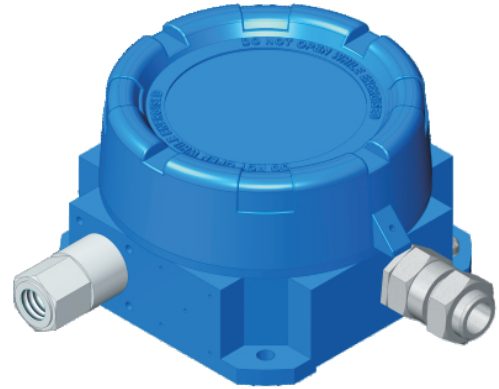
TGI46-2

APPLICATIONS

- Marine applications
- Textile machineries
- Power & steel plants
- Furnace applications
- Oil & Gas, Refineries
- Petro-chemicals & Fertilizers
- Cement & Glass industries
- Railway engines & Turbines

FEATURES

- Fix / adjustable differential
- Field adjustable set point
- Flameproof to Gas groups
- Ingress Protection IP 67
- Internal set point lock
- Rigid construction
- Scale provided



FLAMEPROOF PRESSURE SWITCH PISTON , TGI46-2

DESCRIPTION

General

Design : BS 6134

Sensing element : Piston

Repeatability : ± 0.5 % Full Scale

Scale accuracy : ± 1 % Full Scale

Mounting : Bottom / Panel

Equipment rating : Ex d IIC T6 Gb as per IS/IEC 60079-1 : 2007

($-10^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$) Zone 0, 1 & 2

Ingress protection : IP 65

Maximum process temperature : 150°C

Ambient temperature : $-10 \dots 60^{\circ}\text{C}$

Set point : Between 20 to 80 % F.S for better performance

High voltage strength : 0.5 to 0.6 KV between open contacts
and 2 KV between contact and body

Material of construction

Enclosure : Die-cast aluminum

Top chamber : ASTM A105 - Ni plated, AISI 304 SS

Sensing element : AIS 316 SS / Monel / Hastelloy - C276

Bottom chamber : AISI 316 SS / AISI 316L SS / Monel /
Hastelloy C-276

Wall mounting bracket : ASTM A105 / AISI 304 SS

2" pipe / Yoke mounting bracket : ASTM A105 / AISI 304 SS

Tag plate : AISI 304 SS

Standard version :

Range : As per the selection table

Set point adjustment : External (Field adjustable)

Differential : Fixed (Standard - 2...5%),
Adjustable (For code N11B - 5...12.5%)

For double contacts, Differential shall be 1.5 times

Switch : 1 SPDT Snap action micro switch

Switch rating : 15A,250 VAC / 2A,24 VDC (Standard)

Process connection : $\frac{1}{4}$ " BSP (F) / $\frac{1}{4}$ " NPT (F)

Cable entry : PG 13.5, single compression

Range table :

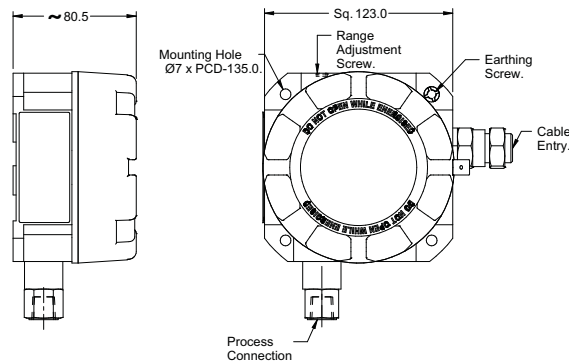
CODE	RANGE	CODE	RANGE
	"bar"		"bar"
232	2...32	100	10...100
440	4...40	160	20...160
565	5...60	250	25...250
		400	40...400

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DIMENSIONAL DRAWING

Piston



NOTES
1. Drawing not to scale. All dimensions are in mm.

ORDERING CODES

MODEL						TGI46-2	
TGI46-2 Flameproof Pressure Switch, Piston							
XXX As per range table						110	
DIAPHRAGM						S02	
S02	AISI 316 SS		S05	MONEL 400			
BOTTOM CHAMBER						S02	
S02	AISI 316 SS		S03	AISI 316L SS			
S10	Hastelloy C-276			S05	MONEL 400		
SET-POINT ADJUSTMENT						E64	
E63	Internal		E64	External			
CALIBRATION						E80	
E70	Falling pressure		E80	Rising pressure			
MICROSWITCH TYPE						N11A	
N11A	Low Deadband Contact (15A/250VAC, 2A/24VDC)			N11E	Hermetically Sealed Silver Contact (2A/24VDC)		
N11B	Adjustable Deadband Contact (15A/250VAC, 5A/24VDC)			N11F	Hermetically Sealed Gold Contact (1A/125VAC)		
N11C	Gold Plated Contact (1A/250VAC, 0.5A/28VDC)			N12A	DPDT Contact (10A/125VAC)		
N11D	Environmentally Sealed Silver Contact (5A/28VAC)						
NO. OF SWITCHES						1	
1	One		2	Two [Except for code N12A]			
CABLE ENTRY						Q1	
Q1	PG 13.5		Q2	½" NPT (F)			
Q4	DIN Connector		Q5	¾" ET (F)			
PROCESS CONNECTION						P24	
P23	¼" BSP (F)		P3	¼" BSP (M)			
P7	½" BSP (M)		P24	¼" NPT (F)			
P8	½" NPT (M)		P28	½" NPT (F)			
A26	1.5" RF 300#		A27	1.5" RF 600#			
A32	2" RF 300#		A33	2" RF 600#			
OTHER OPTIONS						E16/E27	
E16	Calibration Certificate		E27	AISI 304 SS tag plate			
E66	2" Pipe mounting bracket & clamp			E65	Wall mounting bracket		
Q54	Ni-plated brass double compression cable gland			E17	Material test certificate 3.1		

Ordering Example : TGI46-2.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27