

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

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



FLAMEPROOF PRESSURE SWITCH -PISTON -TMC46-2

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)

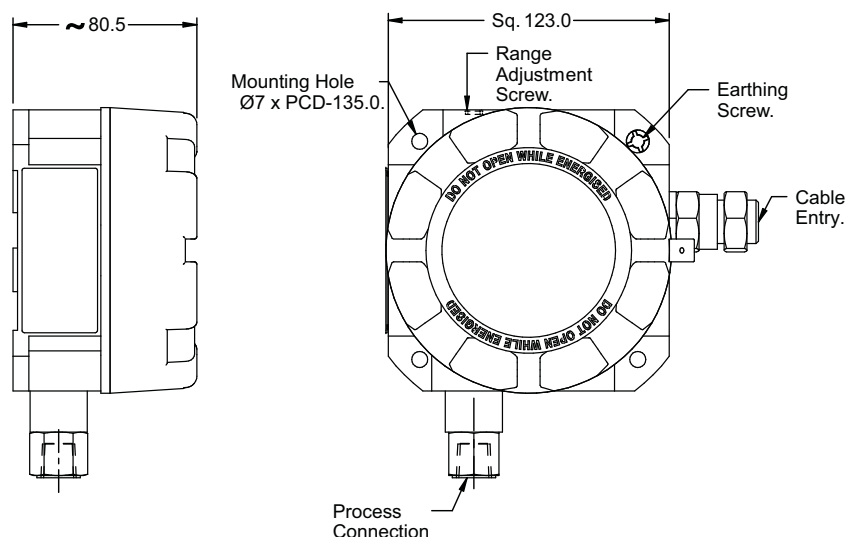
Process connection : $\frac{1}{4}$ " BSP (F) / $\frac{1}{4}$ " NPT (F)

Cable entry : PG 13.5, single compression

Range Table

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

DIMENSIONAL DRAWING



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

ORDERING CODES

MODEL

TMC46-2 Flameproof Pressure Switch, Piston

TMC46-2

XXX As per range table

110

DIAPHRAGM

S02 AISI 316 SS

S05 MONEL 400

S10 Hastelloy C-276

S02

BOTTOM CHAMBER

S02 AISI 316 SS

S03 AISI 316L SS

S05 MONEL 400

S02

S10 Hastelloy C-276

SET-POINT ADJUSTMENT

E63 Internal

E64 External

E64

CALIBRATION

E70 Falling pressure

E80 Rising pressure

E80

MICROSWITCH TYPE

N11A Low Deadband Contact (15A/250VAC, 2A/24VDC)

N11B Adjustable Deadband Contact (15A/250VAC, 5A/24VDC)

N11C Gold Plated Contact (1A/250VAC, 0.5A/28VDC)

N11D Environmentally Sealed Silver Contact (5A/28VAC)

N11E Hermetically Sealed Silver Contact (2A/24VDC)

N11F Hermetically Sealed Gold Contact (1A/125VAC)

N12A DPDT Contact (10A/125VAC)

N11A

NO. OF SWITCHES

1 One

2 Two [Except for code N12A]

1

CABLE ENTRY

Q1 PG 13.5

Q4 DIN Connector

Q2 ½" NPT (F)

Q5 ¾" ET (F)

Q3 ½" BSP (F)

Q1

PROCESS CONNECTION

P23 ¼" BSP (F)

P7 ½" BSP (M)

P8 ½" NPT (M)

A26 1.5" RF 300#

A32 2" RF 300#

P3 ¼" BSP (M)

P24 ¼" NPT (F)

P28 ½" NPT (F)

A27 1.5" RF 600#

A33 2" RF 600#

P5 3/8" BSP (M)

P4 ¼" NPT (M)

A25 1.5" RF 150#

A31 2" RF 150#

P24

OTHER OPTIONS

E16 Calibration Certificate

E27 AISI 304 SS tag plate

E65 Wall mounting bracket

E66 2" Pipe mounting bracket & clamp

E17 Material test certificate 3.1

Q54 Ni-plated brass double compression cable gland

E16/E27

Ordering Example : TMC46-2.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27



TEMPSENS MEASUREMENT & CONTROL PVT. LTD.
gauges@tempsens.com | www.tempsens.com