

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 : Diaphragm

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 : $-10...60^{\circ}\text{C}$

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



DIFFERENTIAL PRESSURE SWITCH -WEATHER PROOF -TMC46-1

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)

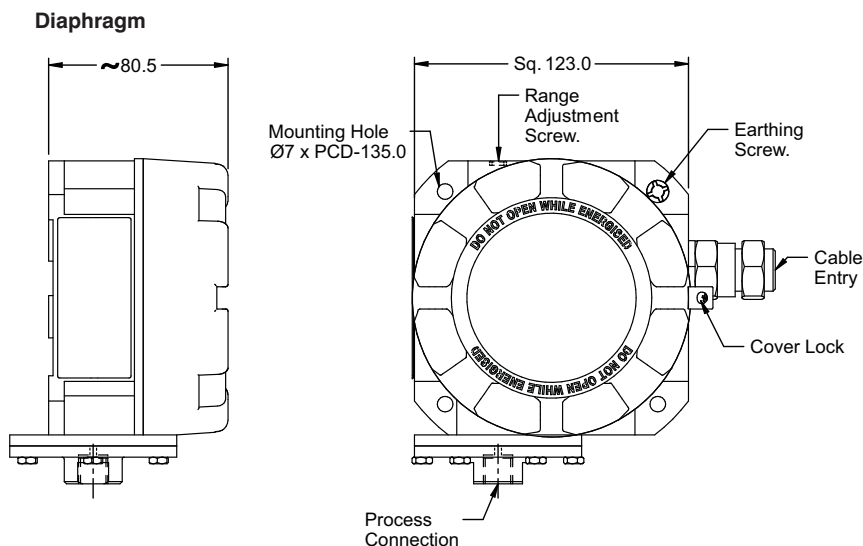
Process connection : $\frac{1}{4}$ " BSP (F) / $\frac{1}{4}$ " NPT (F)

Cable entry : PG 13.5, single compression

Range Table

CODE	RANGE	
	"mbar"	"bar"
560	5...60	201 0.1...1
101	10...100	202 0.2...2
252	25...250	404 0.4...4
506	50...600	606 0.6...6
		110 1...10
		116 1...16
		225 2...25

DIMENSIONAL DRAWING



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

ORDERING CODES

MODEL						TMC46-1
TMC46-1 Flameproof Pressure Switch, Diaphragm						
RANGE						110
XXX	As per range table					
DIAPHRAGM						S02
S02	AISI 316 SS	S05	MONEL 400	S10	Hastelloy C-276	
BOTTOM CHAMBER						S02
S02	AISI 316 SS	S03	AISI 316L SS	S05	MONEL 400	
S10	Hastelloy C-276					
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)	Q3	½" BSP (F)	
Q4	DIN Connector	Q5	¾" ET (F)			
PROCESS CONNECTION						P24
P23	¼" BSP (F)	P3	¼" BSP (M)	P5	3/8" BSP (M)	
P7	½" BSP (M)	P24	¼" NPT (F)	P4	¼" NPT (M)	
P8	½" NPT (M)	P28	½" NPT (F)	A25	1.5" RF 150#	
A26	1.5" RF 300#	A27	1.5" RF 600#	A31	2" RF 150#	
A32	2" RF 300#	A33	2" RF 600#			
OTHER OPTIONS						E16/E27
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					

Ordering Example : TMC46-1.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27



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