

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
- Weatherproof to IP 68
- Internal set point lock
- Rigid construction
- Scale provided

DESCRIPTION

General

Design : BS 6134

Sensing element : Diaphragm / Piston

Repeatability : ± 0.5 % Full Scale

Scale accuracy : ± 1 % Full Scale

Mounting : Bottom / Panel

Enclosure / equipment rating : IP 68

Maximum process temperature : 150 °C

Ambient temperature : -10...60 °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

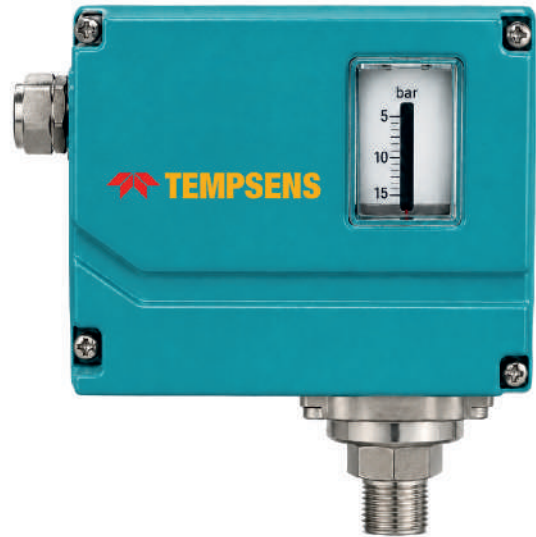
Sensing element : AIS 316 SS / Monel / Hastelloy - C276

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 -TMC45

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)

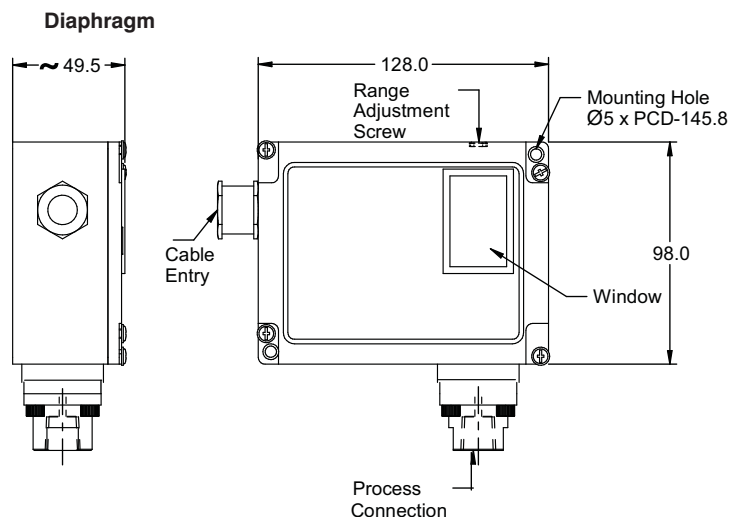
Process connection : 1/4" BSP (F) / 1/4" NPT (F)

Cable entry : PG 13.5, single compression

Range Table

CODE	RANGE	
	"mbar"	"bar"
506	50...600	606
		110
		116
		225
		0.6...6
		1...10
		1...16
		2...25

DIMENSIONAL DRAWING



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

ORDERING CODES

MODEL				TMC45
TMC45 Differential Pressure Switch weather proof				
RANGE				110
XXX As per range table				
DIAPHRAGM				S02
S02	AISI 316 SS	S05	MONEL 400	
S10	Hastelloy C-276			
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)	
Q3	½" BSP (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#	
P5	3/8" BSP (M)	P4	¼" NPT (M)	
A25	1.5" RF 150#	A31	2" RF 150#	
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 : TMC45.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27



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