

ADDING VALUE TO YOUR SYSTEMS



WATER
TREATMENT
COMPONENTS



WATER
HANDLING
COMPONENTS



WASTEWATER
TREATMENT
COMPONENTS

The background of the top half of the image is a dark blue field filled with a network of thin, light blue lines. These lines intersect at various points, some of which are marked with small, solid blue circles. Overlaid on this network are several concentric, irregular polygons, also outlined in light blue. A prominent, slightly thicker light blue line cuts diagonally across the center of the image, passing through the geometric shapes. The overall effect is one of a complex, interconnected system or data network.

**A STRONG
GROUP.
FOR YOUR
SUCCESS.**



Smart in sensing

YOUR PROCESSES DESERVE THE BEST SOLUTIONS.

WE OFFER THEM





Predictive
maintenance



Plant
monitoring



Condition
monitoring and
alarming



Process
optimisation

Accredited and high-quality calibrations

In calibration technology too, we set standards with the highest precision. Whether the on-site service for your equipment for a safe audit or a fully automatic calibration system, we offer a comprehensive spectrum of products and services – and thus also the right solution for your requirements. Our portfolio covers instruments in all accuracy classes and with varying degrees of automation. Around the world, we have laboratories that are accredited in accordance with appropriate national standards. For you, this means short distances and your equipment calibrated quickly. In many countries we can even come directly to your business with our own calibration vans.

Through modern instrument design with excellent equipment features, our calibration instruments fulfil the highest demands of operator convenience and performance.





The WIKA Group is a group of companies which is active globally. At the same time, as a family business, we are committed to traditional values. Our actions have always been characterised by social responsibility towards people and the environment.

“

Think in decades, not quarters:
We bear responsibility for
society, our employees and
the environment.

WIKA in brief

A family business
since 1946

Responsibility for people
and the environment

Code of Conduct

Kaizen

Six Sigma

Lean management

PRESSOSTAT

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature.



Applications

- Shipbuilding
- Engine manufacturing
- Railways
- Machine tools
- Hydraulics

Features

- Rugged aluminium housing
- Protection IP65
- Any mounting position possible

08/2024

Data sheet H72259t

Technical Data

Measuring principle	Piston	Repeatability	± 1.0 % FS typ.
Measuring range	1 ... 10 to 60 ... 600 bar	Media temperature	O-Ring NBR: -30°C ... +100°C O-Ring FKM: -15°C ... +150°C
Output signal	1 Floating change-over contact (SPDT)	Ambient temperature	-20°C ... +70°C
Switching differential	Not adjustable	Approval / conformity	ABS, BV, CCS, DNV-GL, KRS, LRS, RINA EN60730-1/ EN60730-2-6: Typ 2.B.H

Subject to change

Ordering information/type code

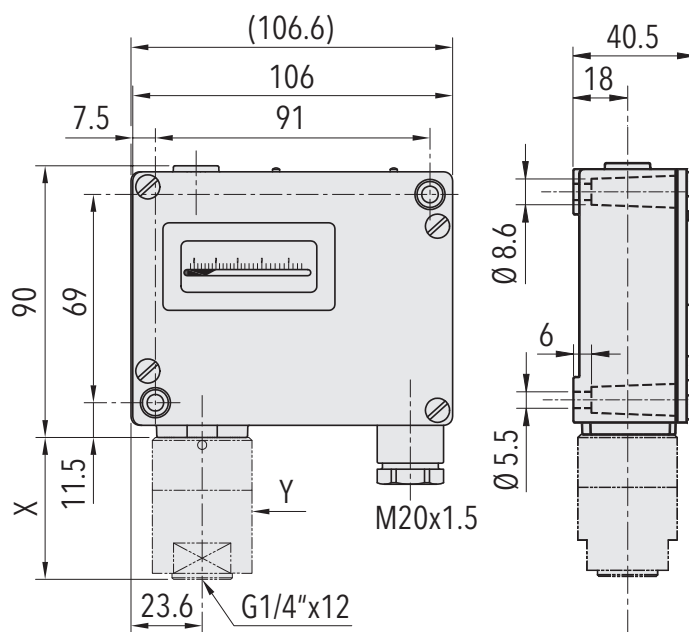
						XXX	XX	XX	XXX	XX	XX
Custom build code	With display and adjusting screw					944					
	Without display, with adjusting screw					947					
Microswitch	Small switching differential, standard vibration resistance ^{1) 2)}						10				
	Average switching differential, standard vibration resistance ¹⁾						11				
	Average switching differential, increased vibration resistance  ¹⁾						23				
	Large switching differential, high vibration resistance  ¹⁾						26				
	With gold plated contacts, standard vibration resistance ¹⁾						21				
Range	Range [bar]	Over pressure [bar]	Burst pressure [bar]			Range [bar]	Over pressure [bar]	Burst pressure [bar]			
	1 ... 10	100	200	78		16 ... 160	400	600	84		
	4 ... 40	200	400	81		25 ... 250	400	600	85		
	6 ... 60	200	400	82		40 ... 400	800	1000	86		
	10 ... 100	200	400	83		60 ... 600	800	1000	87		
Sensor	Sensor material	Sensor housing material	Thread	Range		Sensor material	Sensor housing material	Thread	Range		
	1.4435, O-Ring NBR	1.4435	G1/4" female	78	700	1.4435, O-Ring NBR	1.4435	G1/2" male	82, 83	710	
	1.4435, O-ring FKM	1.4435	G1/4" female	78	701	1.4435, O-Ring FKM	1.4435	G1/2" male	82, 83	711	
	1.4435, O-ring NBR	1.4435	G1/2" male	78	702	1.4435, O-Ring NBR	1.4435	G1/4" female	84, 85	712	
	1.4435, O-ring FKM	1.4435	G1/2" male	78	703	1.4435, O-Ring FKM	1.4435	G1/4" female	84, 85	713	
	1.4435, O-Ring NBR	1.4435	G1/4" female	81	704	1.4435, O-Ring NBR	1.4435	G1/2" male	84, 85	714	
	1.4435, O-Ring FKM	1.4435	G1/4" female	81	705	1.4435, O-Ring FKM	1.4435	G1/2" male	84, 85	715	
	1.4435, O-Ring NBR	1.4435	G1/2" male	81	706	1.4435, O-Ring NBR	1.4435	G1/4" female	86, 87	722	
	1.4435, O-ring FKM	1.4435	G1/2" male	81	707	1.4435, O-Ring FKM	1.4435	G1/4" female	86, 87	723	
	1.4435, O-Ring NBR	1.4435	G1/4" female	82, 83	708	1.4435, O-Ring NBR	1.4435	G1/2" male	86, 87	724	
	1.4435, O-Ring FKM	1.4435	G1/4" female	82, 83	709	1.4435, O-Ring FKM	1.4435	G1/2" male	86, 87	725	
Fixing	Direct on sensor or housing										00
	With mounting bracket										31
Accessories	Lead seal (manipulation protection)										16
	Screwed cable gland M20x1.5 (EN50262) 										07
	Screwed cable gland M24x1.5 (DIN89280) 										27
	Screwed cable gland M18x1.5 (DIN89280) 										40
	Damping elements and snubber see data sheet H72258										

¹⁾ Switching differential not adjustable

²⁾ Not suitable for applications under vibration

Standard products (extra short lead time)

Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Switching differential [bar]	Diameter Y [mm]	Length X [mm]
PK10	944 2378 700	1 ... 10	100	0.45 ... 0.9 (fix)	33	47
PK40	944 2381 704	4 ... 40	200	1.8 ... 3.4 (fix)	27	42.5
PK100	944 2383 708	10 ... 100	200	3.2 ... 7.5 (fix)	27	42.5
PK250	944 2385 712	25 ... 250	400	5.2 ... 16 (fix)	27	42.5

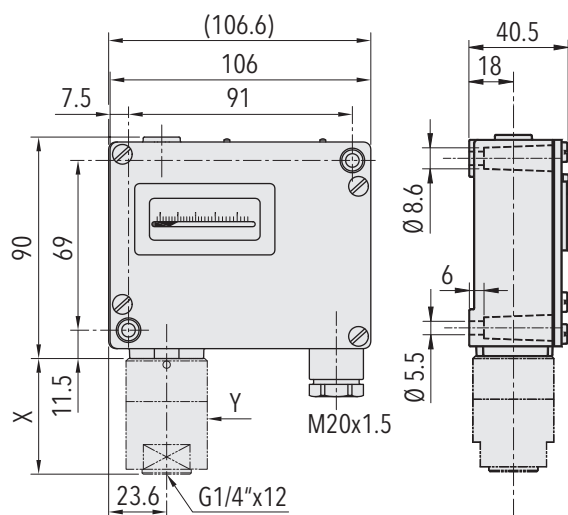


Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint ¹⁾	10% ... 90% FS
Environmental conditions	Ambient temperature	-20°C ... +70°C
	Media temperature	O-Ring NBR: -30°C ... +100°C O-Ring FKM: -15°C ... +150°C
	Storage temperature	-25°C ... +85°C
	Protection	IP65
	Humidity	Max. 95 % relative
	Vibration	Switch 23/26: 5...25 Hz: ±1.6 mm 25...100 Hz: 4g
	Shock	50g/ 11ms
Mechanical Data	Sensor	1.4435
	Housing	AlSi10Mg/ Epoxy coated
	Sealing	NBR/FKM
	Screwed cable gland	Brass nickel plated
	Mounting torque	Max. 25 Nm
	Installation	any position
	Weight	~ 710 g
Microswitch	Rating	See table
	Resistance of insulation	500 VDC / 100 MΩ
	Dielectric strength	U ≤ 250V: 1.45 kV / U ≤ 500V: 2 kV terminal ground
	Life time (mechanical)	Microswitch 10/11: 20 Mio. cycles Microswitch 21: 0.5 Mio. cycles Microswitch 23/26: 0.3 Mio. cycles
Electrical connection	Electrical connections	Terminal screw
	Cable gland	M20x1.5 Cable-Ø 6...13 mm
	Terminal screw	3 x 1.5...4 mm ²

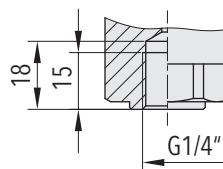
¹⁾ Other adjustment ranges upon request

Additional information		
Documents	Data sheet	www.trafag.com/H72259
	Instructions	www.trafag.com/H71261

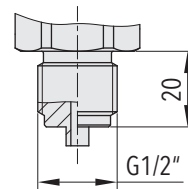
Dimensions



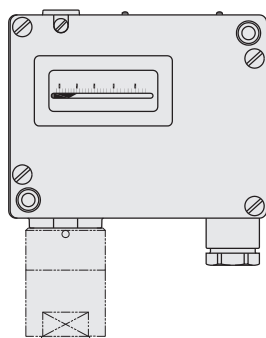
Dimension X and Y see data sheet H72271



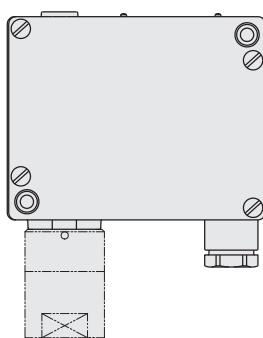
G1/4" female



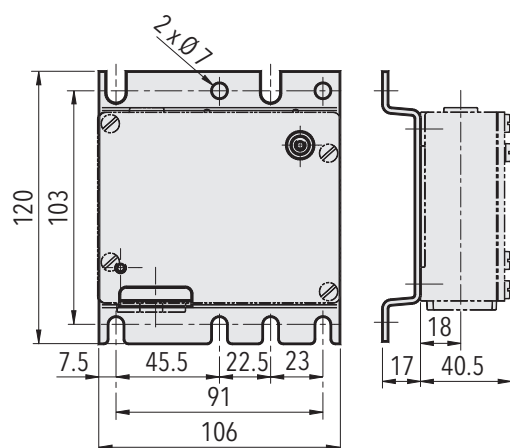
G1/2" male



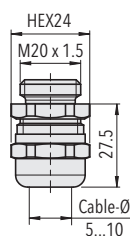
944.XX.XX.XXX.XX.XX



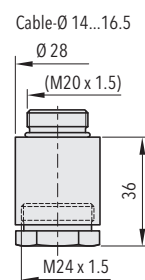
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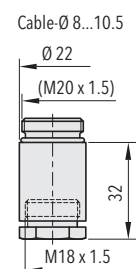
94X.XX.XX.XXX.31.XX



94X.XX.XX.XXX.XX.07
M20x1.5



94X.XX.XX.XXX.XX.27
M24x1.5



94X.XX.XX.XXX.XX.40
M18x1.5



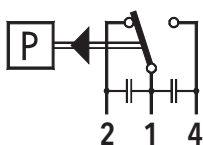
Switching differential typ. @ 25°C

Measuring range of piston sensor	[bar]	1 ... 10	4 ... 40	6 ... 60	10 ... 100	16 ... 160	25 ... 250	40 ... 400	60 ... 600
Microswitch 10 Switching differential (not adjustable, variable according to set point)	[bar]	0.4 ... 0.8	1.5 ... 2.5	2.0 ... 3.7	2.6 ... 5.5	3.4 ... 8.0	4.3 ... 11	5.3 ... 16	6.5 ... 21
Microswitch 11, 21, 23 Switching differential (not adjustable, variable according to set point)	[bar]	0.45 ... 0.9	1.8 ... 3.4	2.3 ... 4.8	3.2 ... 7.5	4.1 ... 11	5.2 ... 16	6.5 ... 23	8.0 ... 32
Microswitch 26 Switching differential (not adjustable, variable according to set point)	[bar]	0.55 ... 1.1	2.0 ... 4.0	2.7 ... 5.7	3.7 ... 9.0	4.7 ... 13	6.0 ... 19	7.5 ... 28	9.0 ... 38

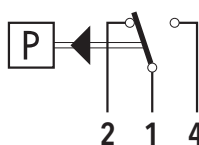
Electrical data switch

Type	Features	Rating	
		Resistive Load (Inductive Load)	
		AC	DC
10	Small switching differential (not recommended for applications under vibrations)	125 V, 10 (1.5) A 250 V, 10 (1.25) A	250 V, 0.2 (0.02) A 125 V, 0.4 (0.03) A 30 V, 2 (1) A 14 V, 15 (2.5) A
11	Average switching differential, standard vibration resistance	125 V, 15 (1.5) A 250 V, 15 (1.25) A 500 V, 10 (0.75) A	250 V, 0.25 (0.03) A 125 V, 0.5 (0.05) A 30 V, 6 (1.5) A 14 V, 15 (1.5) A
23 	Average switching differential, increased vibration resistance	125 V, 15 (1.5) A 250 V, 15 (1.25) A 500 V, 10 (0.75) A	250 V, 0.3 (0.05) A 125 V, 0.6 (0.1) A 30 V, 15 (1.5) A 14 V, 15 (1.5) A
26 	Large switching differential, high vibration resistance	125 V, 15 (1.5) A 250 V, 15 (1.25) A 500 V, 10 (0.75) A	250 V, 0.3 (0.2) A 125 V, 0.75 (0.4) A 30 V, 15 (1.5) A 14 V, 15 (1.5) A
21	With gold plated contacts, standard vibration resistance	24 V, 0.1 (0.1) A 12 V, 1 (1.0) A 5 V, 2 (2.0) A	24 V, 0.1 (0.1) A 12 V, 1 (1.0) A 5 V, 2 (2.0) A

Electrical Connection



Switch 11/12/23



Switch 26

Product Overview



Baumer Technologies India Pvt. Ltd.

A Baumer Group company. 150+ years of experience of Bourdon tube technology.

Baumer Technologies India Pvt. Ltd.

Baumer Technologies India Pvt. Ltd. is in the business of process instrumentation since 1989. We have very wide spread domestic distribution network. In addition; our qualified & technical team is able to offer solutions to direct customers.

We have a state-of-art manufacturing facility having a very large machine shop and sophisticated CNC & Gun drilling machines. Our manufacturing range includes Pressure Gauges, Temperature Gauges, RTD's, Thermocouples, Thermowells, Pressure Switches, Needle Valves, Manifolds, Instrumentation Tube Fittings, Level Indicators, Level Switches, Pressure Transmitter, Temperature Transmitter, Level Transmitter and allied accessories. We are able to provide you with customized solution.

Baumer Group

The Baumer Group has its headquarters in Frauenfeld, Switzerland and employs around 2500 people worldwide, with 36 locations in 18 countries. In the past decades Baumer has established an impressive reputation as a supplier of innovative and high class quality sensor products for applications in factory and process automation.

Baumer has a broad portfolio of standard products all based on a multitude of sensor technologies. Customers benefit from internationally comprehensive consultation and reliable service. In close cooperation with them Baumer develops specific solutions with distinct advantages in cost and performance. The established Baumer corporate culture places special emphasis on the customer and their needs. Baumer's considerable competence in application, comprehensive consultation by the sales specialists as well as the outstanding service makes Baumer a reliable partner in the sensor field.



ISO 9001:2008



Index

Mechanical pressure measurements

- All stainless steel gauges
- Solid front
- Test gauges
- Stainless steel with brass internal
- Gauges with electrical contact
- Sanitary pressure gauges
- Differential gauges
- Low range pressure gauges

Diaphragm seals

- Screwed connection
- Flanged connection
- Sanitary connection
- Accessory

Accessories

- Needle valves
- Manifold valves
- Gauge cock
- Overload protector
- Pulsation dampener
- Siphon
- Pressure switches
- Pressure / Differential
- Phosphor bronze / Stainless steel
- Weather proof
- Stainless steel

Temperature measurements

- Gauges
- Switches
- RTDs
- Thermocouple
- Thermowells

Mechanical pressure measurements

Mechanical pressure measurements



- All stainless steel gauges
- Commercial gauges
- Industrial gauges
- DIN type stainless steel gauges
- Economy gauges

- Solid front
- Test gauges
- Stainless steel with brass internal



										
Model	AD	AL	BE	MES		AI	AH	AR	AJ	AT
DN	50, 63 & 80 mm	100, 125, 150, 200 & 250 mm	63, 100 & 150 mm	100 mm		100 & 150 mm	4½"	150, 200 & 250 mm	150 mm	50, 63, 80 & 100 mm
Pressure range	50 mm : -1...0 & 0...400 bar 63 mm : -1...0 & 0...1000 bar 80 mm : -1...0 & 0...1000 bar	-1 ... 0 & 0 ...1600 bar	63 mm : -1...0 & 0...1000 bar 100 & 150 mm : -1...0 & 0...1600 bar	-1...0 & 0...70 bar		-1 ... 0 & 0 ... 1600 bar	-1 ... 0 & 0 ... 1600 bar	-1 ... 0 & 0 ... 1000 bar	-1 ... 0 & 0 ... 1000 bar	50 mm : -1...0 & 0...280 bar 63, 80 & 100 mm : -1 ... 0 & 0 ... 400 bar
Accuracy class	50 mm : 2.5 63 & 80 mm : 1.6	1.0, (Optional : 0.5)	63 mm : 1.6 100 & 150 mm : 1.0 (Optional : 0.5)	1.6		1.0, (Optional : 0.5)	0.5	0.25	0.25	40 & 50 mm : 2.5 63, 80 & 100 mm : 1.6
Case material & type	AISI 304 SS (Optional : AISI 316 SS), Bayonet / Rolling	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Snap Lock	AISI 304 SS, Rolling		AISI 304 SS (Optional : AISI 316 SS), Bayonet, Solid Front	Polypropylene, Solid Front	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet, Solid Front	AISI 304 SS (Optional : AISI 316 SS), Bayonet / Rolling
Sensing element material	AISI 316L SS	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel (For NS100 & 150mm)	AISI 316L SS		AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	Beryllium Copper	Beryllium Copper	Copper Alloy
Process connection material	AISI 316 SS	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel (For NS100 & 150mm)	AISI 304 SS		AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316L SS	AISI 316L SS	Copper Alloy
Process connection	50 & 63 mm : 1/8" BSP(M), 1/8" NPT(M), 1/4" BSP(M), 1/4" NPT(M), 80 mm : 3/8" BSP(M) & 3/8" NPT(M)	3/8" BSP(M), 1/2" BSP(M) & 1/2" NPT(M)	63 mm : 1/4" BSP(M), 1/4" NPT(M), 100 & 150 mm : 1/2" BSP(M) & 1/2" NPT(M)	3/8" BSP(M), 1/2" BSP(M) & 1/2" NPT(M)		1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	50 & 63 mm : 1/8" BSP(M), 1/8" NPT(M),1/4" BSP(M), 1/4" NPT(M), 80 & 100 mm: 1/4" BSP(M), 1/4" NPT(M), 3/8" BSP(M) & 3/8" NPT(M)
Type of mounting	50 mm : 2, 4 & 13 63 mm : 1, 2, 3, 4, 5, 12,13 80 mm : 1, 2 & 4	1, 2, 3, 4*, 5, 6, 9 & 11** *(For 100mm only) **(For NS100 to 150mm only)	1, 2, 3, 4, 5 & 9	D (Bottom)		1, 2 & 6	1, 3 & 5	1, 2, 3, 5 & 9	1 & 2	50 mm : 2, 4 & 13 63 mm : 1, 2, 4, 5, 12 & 13 80 mm : 1, 2 & 4 100 mm : 1, 2, 3, 5 & 9
Protection class	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65		IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)
Approval		IBR, UL (For NS100, 125 & 150mm) & CE (For NS 100 & 150mm up to 1000 bar)	UL			UL				
Reference standard	EN 837-1	EN 837-1 (For NS100, 150 & 250 mm), ASME B 40.100 for NS 125 mm.	EN 837-1	EN 837-1		EN 837-1	ASME - B 40.100	EN 837-1 (For NS 150 & 250 mm)	EN 837-1	EN 837-1

Mountings :
1 Wall / surface / projection mounting with bottom entry
5 Lower back entry with front flange
12 Center back entry with front flange

2 Direct bottom entry
6 2" pipe / yoke mounting with bottom entry
13 Center back entry with mounting bracket

3 Direct lower back entry
9 Lower back entry with mounting bracket

4 Direct center back entry
11 Bottom entry with front flange

Mountings :
1 Wall / surface / projection mounting with bottom entry
5 Lower back entry with front flange
13 Center back entry with mounting bracket

2 Direct bottom entry
6 2" pipe / yoke mounting with bottom entry

3 Direct lower back entry
9 Lower back entry with mounting bracket

4 Direct center back entry
12 Center back entry with front flange

Mechanical pressure measurements

Mechanical pressure measurements



- Gauges with electrical contact
- Sanitary pressure gauges

- Differential gauges
- Piston operated
- Bellow operated
- Low range pressure gauges
- Diaphragm operated
- Capsule type



										
Model	BI	BJ	AY	AZ		AQ	BF	BQ	AF	AP
DN	100 mm	100 & 150 mm	50 & 63 mm	100 mm		100 & 150 mm	63, 100 & 150 mm	150 mm	63, 100, 125 & 150 mm	100 & 150 mm
Pressure range	1.6 ... 1600 bar	1.6 ... 1600 bar	-1 ... 2 & 2 ... 40 bar	160, 250, 400, 600 bar		600 6000 mmWC & 1..... 6 bar	2500 6000 mmWC & 1..... 10 bar	4000 6000 mmWC & 1..... 6 bar	-6000 -250 mmWC & 250..... 6000 mmWC	-6000...-250 mmWC, 250 ...6000 mmWC & -1...9 bar
Accuracy class	1.0	1.0	1.6	1.6		1.6 (Ascending)	2.0 (Ascending)	1.0 for 1 to 6 bar 1.6 for 4000 to 6000mmWC	1.6	1.6
Case material & type	AISI 304 SS (Optional : AISI 316 SS), Bayonet, High Case Version	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet		AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet	AISI 304 SS, (Optional : AISI 316 SS), Bayonet
Sensing element material	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316L SS (Diaphragm)	AISI 316L SS (Diaphragm)		AISI 316L SS (Double Diaphragm), (Optional : Monel)	Teflon, Ceramic magnet & SS spring	AISI 316L SS (Bellow)	AISI 316 SS (Capsule)	AISI 316L SS (Diaphragm), (Optional : Hastelloy C, Monel)
Process connection material	AISI 316L SS, (Optional : Monel)	AISI 316L SS, (Optional : Monel)	AISI 316 SS (Optional : AISI 316L)	AISI 316 SS		AISI 316 SS, (Optional : AISI 316L SS, Monel)	AISI 316 SS, (Optional : Monel)	AISI 316L SS	AISI 316L SS	AISI 316 SS, (Optional : AISI 316L SS, Hastelloy C, Monel)
Process connection	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(M), 1/2" BSP(M) & 1/2" NPT(M)	1½", 2" & 2½" Clamp	Flange, Without Flange & 1¼" BSP(F)		1/4" NPT (F), 1/2" BSP(M) & 1/2" NPT(M)	1/4" NPT(F), 1/4" BSP(F) & 1/2" NPT(M)	1/2" BSP(M) & 1/2" NPT(M)	1/4" BSP(M), 1/4" NPT (M), 1/2" BSP(M) & 1/2" NPT(M)	1/2" BSP(M), 1/2" NPT(M) & Flanged
Type of mounting	1, 2 & 3	1, 2, 3, 5 & 9	2 & 4	2		1, 2, 6 & 12* (*Suitable for HP chamber only)	2, 3 & 10	1 & 6	63 mm : 1, 2, 4 & 13 100, 125, 150 mm : 1, 2, 3, 5 & 9	2 & 6
Protection class	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)	IP 65 (Optional : IP 66 / IP 67)		IP 65 (Optional : IP 66 / IP 67)	IP 65	IP 65 (Optional : IP 66 / IP 67)	63 mm : IP 55 100, 125, 150 mm : IP 65 (Optional : IP 66 & IP 67)	IP 65 (Optional : IP 66 / IP 67)
Reference standard	EN 837-1	EN 837-1	EN 837-3	EN 837-3		EN 837-3		EN 837-3	EN 837-3	EN 837-3
Others	CE approved Electrical Contacts	CE approved Electrical Contacts		CE approved Electrical Contacts		CE approved Electrical Contacts	Glycerin filled option available	Glycerin filled option available		CE approved Electrical Contacts

Mountings :
1 Wall / surface / projection mounting with bottom entry
5 Lower back entry with front flange

2 Direct bottom entry
9 Lower back entry with mounting bracket

3 Direct lower back entry

4 Direct center back entry

Mountings :
1 Wall / surface / projection mounting with bottom entry
5 Lower back entry with front flange
12 Center back entry with front flange

2 Direct bottom entry
6 2" pipe / yoke mounting with bottom entry
13 Center back entry with mounting bracket

3 Direct lower back entry
9 Lower back entry with mounting bracket

4 Direct center back entry
10 In line entry

[illegible]

Accessories

[illegible]

Accessories



- Gauge cock
- Overload protector
- Pulsation dampener
- Siphon

Pressure switches

- Pressure / differential
- Phosphor bronze / Stainless steel
- Weather proof



				
Model	EC	ED	EG	EH
Type	Gauge Cock - 2 way, 3 way	Overload Protector (Gauge saver)	Pulsation dampener (Snubber)	Siphon (Coil type, Pig tail type & U type)
Pressure rating	100 bar	E01 : 0.6 2.5 bar E02 : 4 400 bar	Up to 400 bar	260 bar max
Process connection	1/4", 3/8" & 1/2" BSP / NPT	1/4" NPT (M x F), 1/2" BSP (M x F & 1/2" NPT (M x F)	1/4" NPT (M x F), 1/2" BSP (M x F) & 1/2" NPT (M x F)	1/4", 3/8" & 1/2" BSP / NPT
Wetted parts	AISI 316 SS, AISI 304 SS	AISI 316 SS, AISI 316L SS, Monel, Hastelloy C	AISI 316 SS, AISI 316L SS, Monel, Hastelloy C	AISI 304 SS, AISI 316 SS, AISI 316L SS, CS
Working temperature	Up to 180°C	-20°C to 120°C	- 20 °C to 120 °C	Up to 400°C

				
Model	UT	CNI	ZPDW, ZPPW	ZDDW
Type	Bellow type	Adjustable Dead Band - Diaphragm type	Diaphragm / Piston	Diaphragm, Differential
Pressure range	0 30 bar	-1 ... 0 & 0 ... 40 bar	ZPDW : -1 ... 0 & 0 ... 40 bar ZPPW : 5 600 bar	3 ... 600 mbar & 0.1 ... 25 bar
Repeatability (% FSR)	2.0	1.0	ZPDW : 0.5 ZPPW : 1.0	0.5
Type, no. of switches	Micro, SPDT, 1	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2
Switch rating	15 A, 220 VAC & 10 A, 24 VDC	15 A, 250 VAC & 0.4 A, 110 VDC	15 A, 250 VAC, 0.2 A, 220 VDC	15 A, 250 VAC, 0.2 A, 220 VDC
Sensing element material	Phosphor Bronze	AISI 316L SS	AISI 316 SS (Optional: AISI 316L SS)	AISI 316L SS
Process connection	1/4" BSP / NPT	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT
Housing / body material	Steel (plated) with plastic cover	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum
Protection class	IP 32	IP 66	IP 66	IP 66
Accessories			Snubber, Chemical seal, Cable Gland	Snubber, Chemical seal, Cable Gland

Pressure switches



				
Model	ZPDX, ZPPX	ZDDX		
Type	Diaphragm / Piston	Diaphragm, Differential		
Pressure range	ZPDX : -1 ... 0 & 0 ... 40 bar ZPPX : 5 600 mbar	3 ... 600 mbar & 0.1 ... 25 bar		
Repeatability (% FSR)	ZPDX : 0.5 ZPPX : 1.0	0.5		
Type, no. of switches	Micro, SPDT, 1 or 2	Micro, SPDT, 1 or 2		
Switch rating	15 A, 250 VAC, 0.2 A, 220 VDC	15 A, 250 VAC, 0.2 A, 220 VDC		
Sensing element material	AISI 316 SS (Optional: AISI 316L SS)	AISI 316L SS		
Process connection	3/8", 1/2" BSP / NPT	3/8", 1/2" BSP / NPT		
Housing / body material	Die Cast Aluminum	Die Cast Aluminum		
Protection class	W/P to IP 65 & Explosion proof, Class 1, Div. 2, Gas Groups B, C & D (ExII2G, Eex d IIC T6)	W/P to IP 65 & Explosion proof, Class 1, Div. 2, Gas Groups B, C & D (ExII2G, Eex d IIC T6)		
Accessories	Snubber, Chemical seal, Cable Gland	Snubber, Chemical seal, Cable Gland		

Temperature measurements



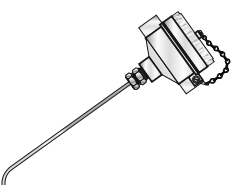
				
Model	CA	CB	Model	ZTD
Type	Gas Filled	Bimetal	Type	Rigid stem / capillary
Nominal size	100, 125, 150, 200, 250 mm	40, 50, 63, 80, 100, 125, 150 mm	Temperature range	10 400°C
Temperature range	-80 650°C	-80 500°C	Repeatability class	1.0
Accuracy class	1.0	1.0	Switch rating	15 A, 250 VAC, 0.2 A, 220 VDC
Case material	AISI 304 SS (Optional AISI 316 SS)	AISI 304 SS (Optional AISI 316 SS)	Stem length	110 to 600 mm
Stem length	110 to 600 mm	30 to 600 mm	Sensing element material	AISI 316 SS
Sensing element material	AISI 316 SS	AISI 316 SS	Process connection	3/8", 1/2" BSP / NPT,
Process connection	3/8", 1/2" BSP / NPT,	3/8", 1/2" BSP / NPT,	Housing / body material	Die Cast Aluminum
Mountings *	1, 2, 3, 5, 8 & 9	2, 4, 8 & 14	Protection class	IP 66
Protection class	IP 65 (Optional : IP 66, IP 67)	IP 65 (Optional : IP 66, IP 67)		
Reference standard	EN 13190	EN 13190		

Mountings :
1 Wall / surface / projection mounting with bottom entry
2 Direct bottom entry
3 Direct lower back entry
4 Direct center back entry
5 Lower back entry with front flange
8 Every angle back entry
9 Lower back entry with mounting bracket
14 Bottom entry through elbow

Temperature measurements

Temperature measurements



										
Model	R01	R02	R04	TCR5		Model	T01	T02	T07	T10
Operating temperature	-200 to 600°C	-200 to 600°C	-200 to 600°C	(-200 to 400 DegreeC)		Elements	J, K, T, E, R, S, B, N	K, R, S, B	K, J, E, N	K, J, E, N, T
Element type	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex	Simpex /Duplex		Element type	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex	Simplex, Duplex
Sheath material	AISI 316 SS	AISI 316 SS	AISI 316 SS	AISI316SS		Sheath material	AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600	AISI 316,SS, AISI 310 SS, Inconel 600
Sheath diameter	3, 4.5, 6, 8, 10 &12 mm	3, 4.5, 6, 8, 10 &12 mm	3, 4.5, 6 & 8 mm	4,5,6,8,9,10MM		Sheath diameter	1, 1.5, 3, 4.5, 6, 8, 10,12 mm	1, 1.5, 3, 4.5, 6, 8, 10,12 mm	1, 1.5, 3, 4.5, 6, 8,10, 12 mm	1, 1.5, 3, 4.5, 6 & 8 mm
Elements	Pt100, Pt500 & Pt1000	Pt100, Pt500 & Pt1000	Pt100, Pt500 & Pt1000	Pt100,Pt500,Pt1000		Enclosure (housing) material	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Plug & Jack Connector
Enclosure (housing) material	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Die Cast Aluminum, AISI 304 SS, AISI 316 SS	Diecast Aluminium		Protection class & type	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	Standard, High Temperature
Protection class & type	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approve	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	IP 65, IP 67, IP 68, Flame proof II A II B, Explosion Proof II C, ATEX Approved	Ip65		Cable gland	Single compression / Double compression	Single compression / Double compression	Single compression / Double compression	
Cable gland	Single compression / Double compression	Single compression / Double compression	Single compression / Double compression	1/2"NPT,1/2"BSP,3/4"ET, M20 X1.5		Cable gland material	Nickel plated Brass, AISI 304 SS, AISI 316 SS	Nickel plated Brass, AISI 304 SS, AISI 316 SS	Nickel plated Brass, AISI 304 SS, AISI 316 SS	
Process connections	1/4" to 3/4" BSP / NPT(M) & Adjustable Flange	1/4" to 3/4" BSP / NPT(M) & Nipple Union Nipple	Weld Pad with intergral collar	1/2"NPT,1/2"BSP,M20 X1.5		Process connections	1/4" to 3/4" BSP / NPT(M) & Nipple Union Nipple	1/4" to 3/4" BSP / NPT(M) & Adjustable Flange	1/4" to 3/4" BSP / NPT(M)	1/4" to 3/4" BSP / NPT(M)
Cable gland material	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nikel plated brass, AISI 304 SS, AISI 316 SS	Nickel Plated brass/ AISI304 SS/AISI316SS		Protecting tube		KER 710, KER 610		
Reference standard	IEC 751 / DIN 43760	IEC 751 / DIN 43760	IEC 751 / DIN 43760	IEC751/DIN 43760		Reference standard	IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1	IEC 584.2/ ANSI MC 96.1

Temperature measurements



- Thermowells
- Bar stock threaded
- Bar stock flanged
- Bar vanstone type

				
Model	W1	W2	W6	W8
Type	Bar Stock (Screwed) : Straight, Straight Reduced Tip, Partial Taper, Full Taper	Bar Stock (Flanged) : Straight, Straight Reduced Tip, Partial Taper, Full Taper	Vanstone type	Fabricated from pipe
Material	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel	AISI 304 SS, AISI 316 SS, Hastelloy C, Monel, Inconel
Instrument connection	3/8" to 1" BSP/NPT	3/8" to 1" BSP/NPT	1/2" NPT	1/2" NPT
Process connection	3/8" to 1" BSP/NPT	1/2" to 3" Flanged	1/2" to 3" Flanged	1/2" to 3" Flanged
Approval	IBR	IBR		
Additional data	Wake Frequency Calculations as per PTC 19.3	Wake Frequency Calculations as per PTC 19.3	Wake Frequency Calculations as per PTC 19.3	

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