

efectorsoo



Pressure sensors

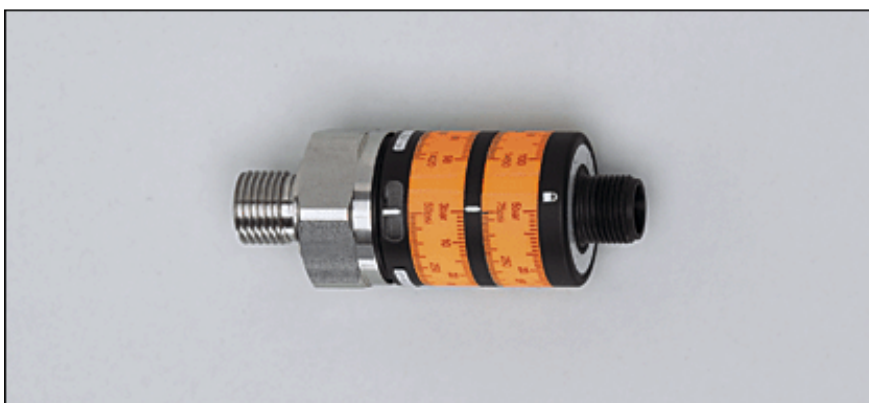
PK6521

Electronic pressure monitor
PK65

Quick disconnect
Process connection G $\frac{1}{4}$ A / M5 I

2 switching outputs
normally open / closed complementary

Measuring range
0...250 bar
0...3625 PSI



Application
Electrical design
Output

Operating voltage [V]
Current rating [mA]
Short-circuit protection
Reverse polarity protection
Overload protection
Voltage drop [V]
Current consumption [mA]

Pressure rating
Bursting pressure min.

Setting range
Set point, SP
Reset point, rP

Adjustment of the switch point

Deviations (% of value of measuring range)

Switch point accuracy
Characteristics deviation
Repeatability
Temperature drift (/ 10 K)
in the temperature range

Type of pressure: relative pressure Liquids and gases
DC PNP
normally open / closed complementary

9.6...32 DC ¹⁾
500
Yes (non-latching)
yes
yes
< 2
< 25

400 bar	5800 PSI
1000 bar	14500 PSI

12.5...250 bar	181...3625 PSI
7.5...245 bar	109...3553 PSI

Shims

< ± 2.5 *)
< ± 1.5 (BFSL) / < ± 2.5 (LS) **)
< ± 0.5
< ± 0.5
0...80

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Pressure sensors

PT3551

Electronic pressure sensor
PT35Process connection G $\frac{1}{4}$ Afor mobile applications
e1 compliant

Analog output

Measuring range
0...250 bar

Application	Type of pressure: relative pressure Liquids and gases
Electrical design	DC
Output	4...20 mA analog
Operating voltage [V]	8.5...32 DC
Reverse polarity protection	yes
Analog output	4...20 mA
Load for analog output [ohms]	max. $(U_b - 8.5 \text{ V}) \times 50$; 775 bei $U_b = 24 \text{ V}$
Pressure rating [bar]	400
Bursting pressure min. [bar]	1000
Accuracy / deviations (in % of the span)	
Characteristics deviation *)	$< \pm 1.0$
Linearity	$< \pm 0.25 \text{ (BFSL)} / < \pm 0.5 \text{ (LS)}$
Hysteresis	$< \pm 0.2$
Repeatability **)	$< \pm 0.1$
Long-term stability ***)	$< \pm 0.1$
Temperature coefficients (TEMPCO) in the temperature range -25...90° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	$< \pm 0.4$
Greatest TEMPCO of the span	$< \pm 0.2$

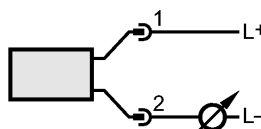
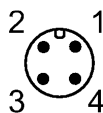
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ifm electronic

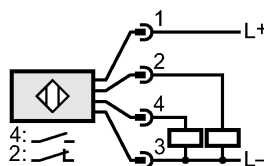
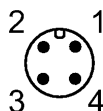
**PT3551**

Step response time analogue output [ms]	8
Ambient temperature [°C]	-25...90 ****)
Medium temperature [°C]	-25...90 ****)
Storage temperature [°C]	-25...90 ****)
Protection	IP 67 / IP 69K, III
Insulation resistance [MΩ]	> 100 (80 V DC)
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:20 g (10...2000 Hz)
Min. pressure cycles	50 million
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
	noise immunity according to the automotive directive 95/54/EC 04/104EC / 05/83EC
	ISO 11452-2 100 V/m (400...2000 MHz)
	ISO 11452-4 100 mA (1...400 MHz) / severity level 4
	ISO 7637-2 severity level 3 (severity level 4 upon request)
	radiation of interference according to CISPR 25
	EN 61000-6-1
	EN 61000-6-4
Housing materials	stainless steel 316L / 1.4404; TROGAMID
Materials (wetted parts)	stainless steel 316L / 1.4404; sealing: FPM (Viton)
Connection	M12 connector
Remarks	*) incl. drift due to tightening torque, zero and span error **) with temperature fluctuations < 10 K ***) in% of the span / 6 months ****) -40...100°C upon request e1 approval on request BFSL = Best Fit Straight Line / LS = Limit Value Setting

Wiring

efectorsoo**ifm electronic****PK6521**

Switching frequency [Hz]	100
Ambient temperature [°C]	-25...80
Medium temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 67, III
Insulation resistance [MΩ]	> 100 (500 V DC)
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:20 g (10...2000 Hz)
Switching cycles min.	50 million
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5/1 kV EN 61000-4-6 HF conducted: 10 V
Housing materials	PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel 316L / 1.4404
Materials (wetted parts)	stainless steel 316L / 1.4404; FPM (Viton)
Display	Power LED green Switching status LED yellow
Connection	M12 connector
Remarks	*) The device shall be supplied from an isolating source and protected by an overcurrent device in accordance with UL 248 such that the limited voltage/current circuit requirements in accordance with UL 508 are met. *) Setting accuracy **) BFSL = Best Fit Straight Line / LS = Limit Value Setting

Wiring

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efector600
ifm electronic

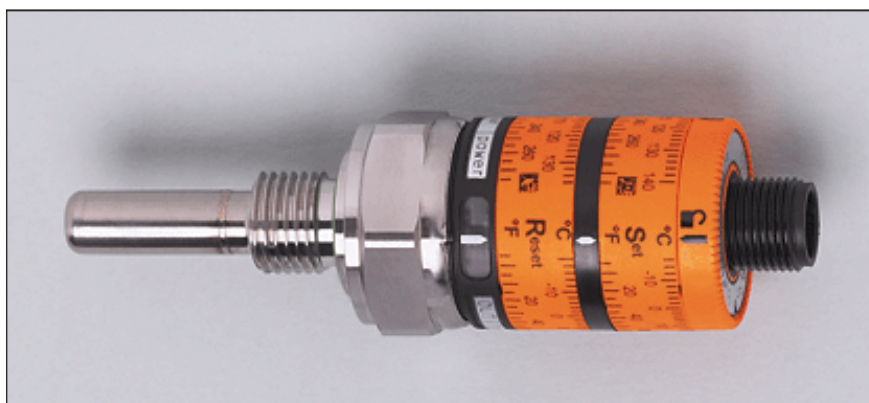

Temperature sensors

TK6130

 Electronic temperature sensor
TK

 Process connection:
G $\frac{1}{4}$ A

 2 switching outputs
complementary
Hysteresis
adjustable

 Measuring range
-25...140 °C / -13...284 °F


Application
Electrical design
Output
Probe length L [mm]

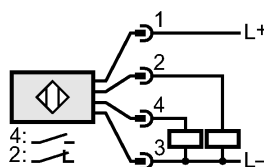
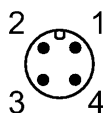
Operating voltage [V]
Current rating [mA]
Short-circuit protection
Reverse polarity protection
Overload protection
Voltage drop [V]
Current consumption [mA]
Pressure rating [bar]
Setting range
Set point, SP [°C/°F]
Reset point, rP [°C/°F]
Adjustment of the switch point
Accuracy
Setting accuracy [K]
Repeatability [K]
Temperature drift (/ 10 K)
Power-on delay time [s]
Measuring element
Dynamic response T05 / T09 [s]
Minimum installation depth [mm]
Medium temperature [°C]

liquids and gases
DC PNP
normally open / closed complementary
25
9.6...32 ¹⁾
500
Yes (non-latching)
yes
yes
< 2
< 30
300
-16...140 / 3...284
-20...136 / -4...277
Shims
± 3
± 0.1
0.1
0.5
1 x Pt 1000, to DIN EN 60751, class B
1 / 3 [*])
15
-25...125 (145 max. 1 h)

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efector600**ifm electronic****TK6130**

Ambient temperature [°C]	-25...70
Storage temperature [°C]	-40...100
Protection	IP 67, III
Insulation resistance [MΩ]	> 100 (500 V DC)
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6:20 g (10...2000 Hz)
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V
Housing materials	stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan); FPM (Viton)
Materials (wetted parts)	stainless steel 316L / 1.4404; FPM (Viton)
Display	Power LED green Switching status LED yellow
Connection	M12 connector; gold-plated contacts
Remarks	'1) operating voltage "supply class 2" to cULus. *) according to DIN EN 60751 The values for accuracy apply to flowing water.

Wiring



Pressure Switches

**Local Solutions for
Individual Customers
Worldwide**

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Pressure Switches

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STAUFF PRESSURE SWITCHES

Stauff pressure switches are versatile, economically priced units with good hysteresis characteristics. The range covers low-cost miniature switches, vacuum switches, pressure switches, and differential pressure switches.

Subminiature Diaphragm and Piston types MS-PS

New MS-PS adjustable pressure switches, available either in diaphragm execution up to 100 bar or piston execution up to 300 bar. Diaphragm and piston MS-PS pressure switches are particularly suitable to monitor pressure in automation, hydraulics, gas distribution, fire prevention, lifting systems, pharmaceutical industry, lubrication plants, refrigeration and so on.

Part No.	MS2SCNTR14
Adjustment Range (bar)	0.2 - 2 bar
Max Press.	80 bar
Design	Diaphragm, Brass body
Connection thread	1/4" BSPP
Temperature range	-40 +140 °C
Medium	Air, hydraulic oil, oil emulsions, water
Hysteresis	15%
Mechanical durability	1 million cycles
Max. Switching frequency	120 / min.
Max voltage & current	250Vac , 6(2)A
Weight	0.1 Kg

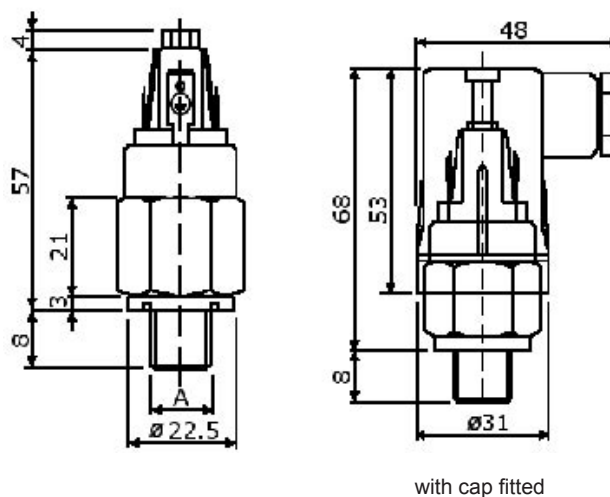
Part No.	MS10SCNTR14
Adjustment Range (bar)	1 - 10 bar
Max Press.	80 bar
Design	Diaphragm, Brass body
Connection thread	1/4" BSPP
Temperature range	-40 +140 °C
Medium	Air, hydraulic oil, oil emulsions, water
Hysteresis	15%
Mechanical durability	1 million cycles
Max. Switching frequency	120 / min.
Max voltage & current	250Vac , 6(2)A
Weight	0.1 Kg

Part No.	MS50SCNTR14TG
Adjustment Range (bar)	10 - 50 bar
Max Press.	300 bar
Design	Diaphragm, Tropicalized Steel body
Connection thread	1/4" BSPP
Temperature range	-40 +140 °C
Medium	Air, hydraulic oil, oil emulsions, water
Hysteresis	15%
Mechanical durability	1 million cycles
Max. Switching frequency	120 / min.
Max voltage & current	250Vac , 6(2)A
Weight	0.1 Kg

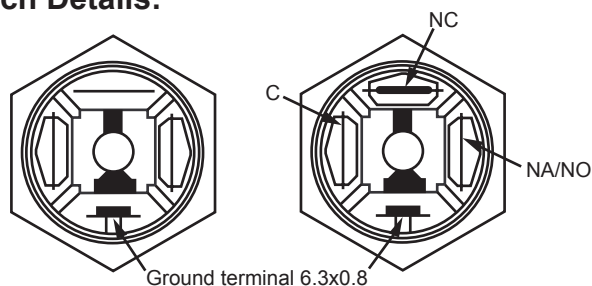
Part No.	MS100SCNTR14TG
Adjustment Range (bar)	10 - 100 bar
Max Press.	300 bar
Design	Diaphragm, Tropicalized Steel body
Connection thread	1/4" BSPP
Temperature range	-40 +140 °C
Medium	Air, hydraulic oil, oil emulsions, water
Hysteresis	15%
Mechanical durability	1 million cycles
Max. Switching frequency	120 / min.
Max voltage & current	250Vac , 6(2)A
Weight	0.1 Kg

Part No.	PS300SCNTR14
Adjustment Range (bar)	50 - 300 bar
Max Press.	600 bar
Design	Piston, Tropicalized Steel body
Connection thread	1/4" BSPP
Temperature range	-40 +140 °C
Medium	Air, hydraulic oil, oil emulsions, water
Hysteresis	15%
Mechanical durability	1 million cycles
Max. Switching frequency	60 / min.
Max voltage & current	250Vac , 6(2)A
Weight	0.12 Kg

Dimensions:



Switch Details:



Type "A" and "C"
A = Normally Open
C = Normally Closed

Type "SC"
C = Common
NC = Normally Closed
NA/NO = Normally Open

Ordering Code:

	MS	2	SC	-	NT	R14	TG	K
--	----	---	----	---	----	-----	----	---

MODEL / TYPE	
MS	- Diaphragm
PS*	- Piston

Material	ADJUSTMENT RANGE	
Brass	2	0.2 - 2 Bar
Brass	10	1 - 10 Bar
Steel	50	10 - 50 Bar
Steel	100	10 - 100 Bar
Steel	150	30 - 150 Bar
Steel	300	50 - 300 Bar

CONTACTS	
	- Silver Plated
A	Normally Open
C	Normally Closed
SC	SPDT - NO/NC

24 AF Body	
-	Standard version in Brass (MS2 - MS 10) & Steel, Zinc Plated
I	AISI 303 Stainless Steel
W	AISI 316 Stainless Steel

Normally Stocked

Cap
 Add to include CAP or sold separately code CAP 13

OPTIONS	
AP	Height Press. Execution (300) Bar For MS2 - MS 10 with body in steel, zinc plated
G	Gold contacts for low current applications ≤30mA
SG	Press. Switches degreased for use with Oxygen
TG	Press. Switches tested for use with Gas

CONNECTIONS	"A"
R18	G 1/8 BSPP
R14	G 1/4 BSPP
M10	M10x1.0
M12	M12x1.5
18NPT	M12x1.5/1/8 NPT

STD. DIAPHRAGM OR GASKET	
NT (-40° +140° C)	HNBR
V (-5° +90° C)	Viton
S (-30° +120° C)	Red Silicon
E (-20° +110° C)	EPDM
N (-10° +110° C)	Neoprene
MI (-40° +140° C)	S/S Only for MS2 & MS10 models - max. press. 80 Bar



* Sealing Ring supplied separately (part no. ATB021)



CAP IP65 Protection

Model	Adjustment range (bar)	Max static pressure (bar)					Fixed hysteresis at 25° C (bar)	Tolerance at 25°C (bar)	version
		Standard version in brass	Standard version in steel, zinc plated	AP version in steel, zinc plated only MS 2/10	AISI 303 stainless steel version	AISI 316 stainless steel version			
MS 2	0.2 - 2	80			150	150	-15% set-point	± 0.2	Diaphragm
MS 10	1 - 10	80			150	150	-15% set-point	± 0.4	
MS 2...AP	0.2 - 2			300			-15% set-point	± 0.3	
MS 10...AP	0.2 - 10			300			-15% set-point	± 0.4	
MS 50	10 - 50		300		150	150	-15% set-point	± 2	
MS 100	10 - 100		300		150	150	-15% set-point	± 3	Piston
PS 150	30 - 150		300		250	250	-15% set-point	± 5	
PS 300	50 - 300		600		400	400	-15% set-point	± 15	

Piston Type

Model DS307/-

This model is a piston-spring type pressure switch. With pressure at zero the micro-switch remains pressed and will only be released when the adjusted switching pressure has been reached. The piston acts against an adjustable spring with travel mechanically limited to 0.5mm, giving minimum work of good resistance to overpressure. The design of the spring .. prevents overtightening. Adjustment by turning the screw top (or knurled knob) which can be fixed with a locking screw. The complete adjusting travel is approx. 9 mm.

Standard Range

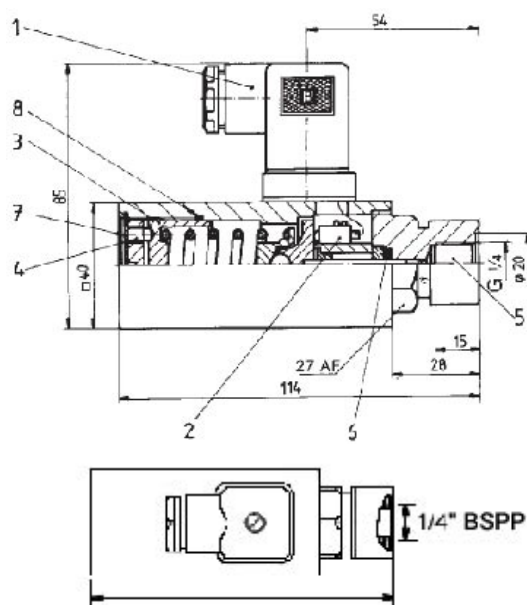
Model	Switching Pressure Range	Maximum Pressure	Piston Diameter
DS307/55	5 - 55 bar	300 bar	6 mm
DS307/100	10 - 100 bar	400 bar	6 mm
DS307/150	20 - 150 bar	500 bar	5 mm
DS307/240	40 - 420 bar	500 bar	4 mm
DS307/350	20 - 350 bar	600 bar	4 mm
DS307/420	50 - 420 bar	600 bar	3 mm
DS307/600	50 - 600 bar	800 bar	3 mm



shaded model available on special order

DS-307	Piston diameter mm						
	Ø3	Ø4			Ø5	Ø6	
1. General							
Design	Spring-loaded piston, spring overload protected						
Connection	Thread G 1/4 female or sub plate, pitch circle Ø 44 mm						
Adjustment	Adjustable screw top of knurled knob						
Safety	Locking screw or lock (E 10 H2[type AS])						
Mounting position	Variable						
2. Hydraulic data							
Switching pressure range	5-55 bar	10-100 bar	20-150 bar	40-240 bar	20-350 bar	50-420 bar	50-600 bar
Switching accuracy	Variations of less than 1%						
Ambient temperature	- 40°C up to + 90°C						
Fluid	Oil, oil-in-water-emulsion						
3. Electric data							
Switch	Electromechanical double-throw switch						
Current	AC - DC current (see table)						
Protection according to DIN 400050	IP 65						
Electrical connection	Appliance inlet according to DIN 43650						
4. Features							
Housing	Aluminium						
Standard body	Brass						
Switching travel	0.5mm - reducing wear of seal and ram to a minimum						
Sub plates	Valve mounting NG 6 and NG 10 (only for sub plate connection Type DS-307/F)						
5. Options							
Mounting	Sub plate mounting; panel mounting						
Body / Housing	Brass; intrinsically safe; and explosion proof						
Adjustment	Knurled screw; adjustment with key lock						
Hysteresis	Special low hysteresis versions						

Dimensions - DS307/-



Item	No.	Description
1	1	Appliance inlet - DIN 43650
2	1	Micro switch (single-pole double-throw)
3	1	Adjustable screw top
4	1	Locking screw
5	1	Connection G 1/4-female
6	1	Set of seals (non-sticking, non-slipping)
7	1	Snap ring
8	1	O-ring

Switching capacity

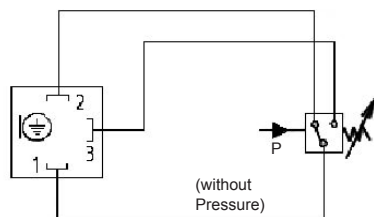
The switch contacts are gold plated silver and are designed to handle micro-currents. At higher currents, the gold is vaporized and therefore a switch which has operated above the micro-current limitations will not operate satisfactorily in the micro-current range.

Max. Load for gold contacts

Max Voltage
Max Current

0.12A with the additional limitations
30V
400mA

Electrical diagram



1. Common
2. NC (normally closed)
3. NO (normally open)

Life in Switching Cycles	Volts max. (V)	Resist. Load Amps	Metal. Bulb Load Amps	Induct. Load Amps
5000	220 AC	10	0.5	5
1000000	220 AC	0.25	0.1	0.25
5000	30 DC	10	2	3
1000000	30 DC	0.5	0.25	0.5

Caution: When the switch is used with inductive loads, eg., solenoids, the back EMF generated by the solenoid switching off can be two to three times the input voltage. This voltage can arc across the switch contacts effectively destroying them. Some type of circuit protection should be employed to eliminate the problem.

Hysteresis for DS-307/-

Pressure switch Type DS-307: For pressure settings of approximately 60-70% of the maximum. Adjustable pressure the Hysteresis is approximately 7-12% of end value.

These values are dependant on the temperature and viscosity of working fluid.

Example: DS-307/100
Pressure range: 10-100 bar

Adjustable pressure: 70 bar
Hysteresis: approx. 7-12 bar

Accessory:

Mounting clamp for piston type pressure switch.

Description	Part No.
Screw mount version	SPV 540x40 PP DP AS
Unistrut mount version	CRA 540x40 PP DP AS



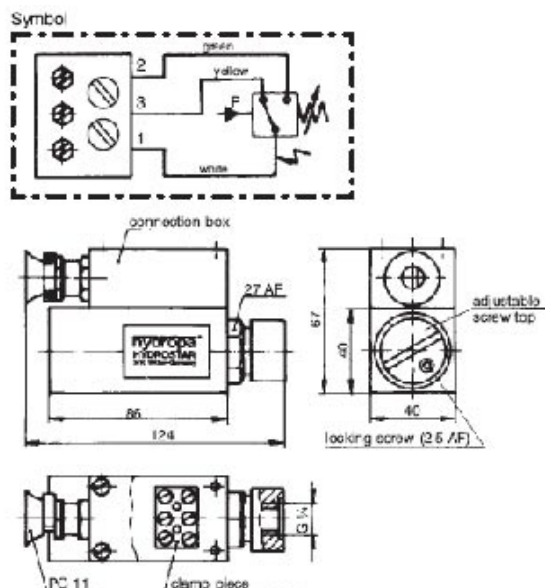
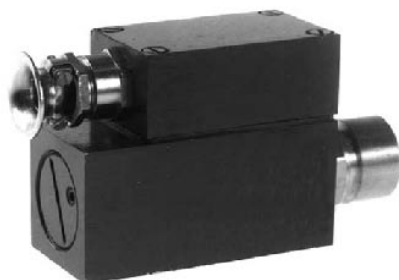
Piston Type for the Mining Industry

DS-103/ES/MS-*** Weight: 1.5 kg

Housing brass

Electrical production facilities
or machines for mines with mine gas.

Connection box:
with 3-pole terminal board



Also with ATEX admittance

DMT 02 ATEX E 200

Equipment identification:

EX I M2 EEx ia I

Please indicate supplement "ATEX" at order!



NOTE !

The unit may only be installed by technical specialists. Comply with the national regulations for the installation of electro-technical equipment. Ensure that the equipment is not energized before connecting the unit

Other Switches Available:



DS307/*/V2**

knurled adjusting screw
with scale



DS307/*/F**

subplate mounting



DS104/*/EX**

explosion-proof to EEx d II CT6

*** select pressure range from page 4

Pressure Switches - Hawe

Models DGxxx

The Hawe DG series of pressure switches range from the simple electro-hydraulic DG33, DG34, DG35 DG36 and DG365 models through the DG1 model with dial setting to the sophisticated electronic switch DG5E models.

Pressure switch with adjustable dial scale up to 600bar



Model	DG1RFS
Adjust. Range	20 - 600 bar
Max. Press.	600 bar
Connection	1/4"F or 1/2"M
Mounting	Vertical/panel mount option
Temp. Range	-25°-+80°C
Medium	Hyd oil, HEPG, HEES
Hysteresis	3%
Mech. Durability	1 million cycles
Max. Switching frequency	2HZ
Max. Voltage & current	230V AC 2A 24DC 4A
Protection	IP 54
Weight	1.3 kg
Body Material	Steel zinc plated

Pressure Switch, adjustable



Model	DG2HS
Adjust. Range	100 - 500 bar
Max. Press.	600 bar
Connection	1/4"F or 1/2"M
Mounting	Any position
Temp. Range	-25°-+80°C
Medium	Hyd oil, HEPG, HEES
Hysteresis	7%
Mech. Durability	7 million cycles
Max. Switching frequency	2HZ
Max. Voltage & current	230VAC 2A 24VDC 4A
Protection	IP 65
Weight	0.5 kg
Body Material	Steel zinc plated

Pressure Switch, adjustable



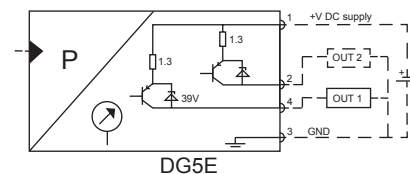
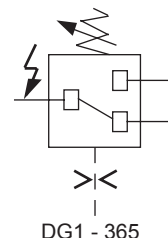
Model	DG33	DG34	DG35	DG36	DG365
Adjust. Range	20 - 700 bar	100 - 400 bar	20 - 250 bar	4 - 12 bar	12 - 170 bar
Max. Press.	700 bar	700 bar	700 bar	700 bar	700 bar
Connection	Sub plate 1/4"	Sub plate 1/4"	Sub plate 1/4"	Sub plate 1/4"	Sub plate 1/4"
Mounting	Any position	Any position	Any position	Any position	Any position
Temp. Range	-25°-+80°C	-25°-+80°C	-25°-+80°C	-25°-+80°C	-25°-+80°C
Medium	Hyd oil, HEPG, HEES	Hyd oil, HEPG, HEES	Hyd oil, HEPG, HEES	Hyd oil, HEPG, HEES	Hyd oil, HEPG, HEES
Hysteresis	2%	2%	5%	3%	5%
Mech. durability	1 million cycles	1 million cycles	1 million cycles	1 million cycles	1 million cycles
Max. Switching frequency	7HZ	7HZ	7HZ	7HZ	7HZ
Max. Voltage & current	230V AC 0.56A 24DC 2A	230V AC 0.56A 24DC 2A	230V AC 0.56A 24DC 2A	230V AC 0.56A 24DC 2A	230V AC 0.56A 24DC 2A
Protection	IP 65	IP 65	IP 65	IP 65	IP 65
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg
Body Material	Steel, cast zinc	Steel, cast zinc	Steel, cast zinc	Steel, cast zinc	Steel, cast zinc

Note: For more detailed specifications on all of the above pressure switches refer to HAWE technical bulletin D5440

Electronic Pressure Switch with digital read out



Model	DG5E-250	DG5E-400
Adjust. Range	0 - 250 bar	0 - 400 bar
Max. Press.	400 bar	600 bar
Connection	1/4"F	1/4"F
Mounting	Any position	Any position
Temp. Range	-25°-+80°C	-25°-+80°C
Medium	Hyd oil, HEPG, HEES	Hyd oil, HEPG, HEES
Hysteresis	7%	7%
Mech. Durability	Electronic >100 million	Electronic >100 million
Max. Switching frequency	70HZ	70HZ
Max. Supply Voltage & current	18-30V DC 250mA	18-30V DC 250mA
Max. Switching capacity	24V, 250mA	24V, 250mA
Protection	IP 67	IP 67
Weight	0.25 kg	0.25 kg
Body Material	Steel	Steel



Note: See bulletin D5440E for full details