PRESSURE SWITCHES, TRANSDUCERS, PRESSURE INDICATORS

SERIES PM, SERIES TRP, SERIES 2950

Series PM: adjustable-diaphragm pressure switches,
with setting visual scale, with exchange contacts
Series TRP: electro-pneumatic transducers
Series 2950: pressure indicators, ports M5



Series PM diaphragm pressure switches are available with NC (normally closed) contacts and with NO (normally open) contacts.

Series PM681 pressure switches with setting visual scale comply with EN60730 standards and are suitable for signaliing pressure through a normally closed Reed contact.

A regulating screw, which can be adjusted using a small screwdriver, allows the switch to be set to the required pressure.
The calibrated diaphragm enables an electrical signal to be generated or inhibited depending on the pressure set.

General Data

Construction	With adjustable diaphragm
Ports	R1/8, G1/4 (Serie PM) Tube 4/2 (Series TRP) M5 (Series 2950)
Mounting	Using thread in body
Max. nr pulses / minute	200
Pressure	1 ÷ 10 bar max.
Working temperature	-5°C ÷ +60°C
Max. power	100 VA
Voltage	220 V
Isolation voltage	1500 V
Max current	0,5 A
Pressure switches protection class	IP40 (Mod. PM681-1, PM681-3) IP54 (Mod. PM11-NC, PM11-NA) IP65 (Mod. PM11-SC)
Certifications	I M1 Ex ia 1 II 1G Ex ia IIC TX II 1D EX ia III TX°C IEC EN 60079-11 SAFETY PARAMETERS Ui= 20V; Ii=0.2A; Pi=1W; Li≈0 µH; Ci≈0 µF UL 508, CAN/CSA C22.2.NO.14-13 OX1: cleaning according to ASTM G-93 Non-volatile residue less than 550 mg/m^2

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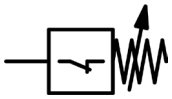
PRESSURE SWITCHES, TRANSDUCERS, PRESSURE INDICATORS
SERIES PM, SERIES TRP, SERIES 2950 - DIMENSIONS

Adjustable-diaphragm pressure switches

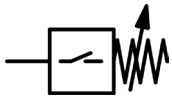


Supplied with a rubber cap providing protection class IP54.

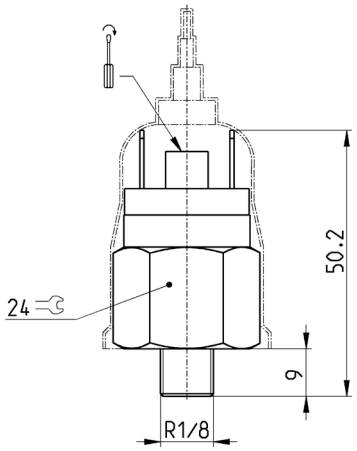
PMNC = Normally Closed
PMNO = Normally Open



PMNC



PMNO



Mod.	Function	Max. voltage	Max. Power	Service Type	Insulation voltage	Symbol
PM11-NC	NC = Normally Closed	48 V AC DC	24 VA	Heavy	500 V	PMNC
PM11-NA	NO = Normally Open	48 V AC DC	24 VA	Heavy	500 V	PMNO
PM11-NC-OX1	NC = Normally Closed	48 V AC DC	24 VA	Heavy	500 V	PMNC
PM11-NCEX	NC = Normally Closed	48 V AC DC	24 VA	Heavy	500 V	PMNC
PM11-NA-OX1	NO = Normally Open	48 V AC DC	24 VA	Heavy	500 V	PMNO
PM11-NAEX	NO = Normally Open	48 V AC DC	24 VA	Heavy	500 V	PMNO

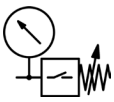
AIR TREATMENT

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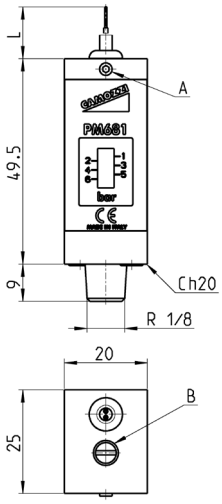
Pressure switches with setting visual scale



In compliance with EN60730 standard
Protection class IP40.
Electric connection: PVC cable 2 x 0,22 mm.
Electric contact: Reed SPST NO.
Body in anodized aluminium and threaded fitting in brass.
Hysteresis: 0,8 bar max.



PMTV



A = Setting grain locking
B = Adjustment screw

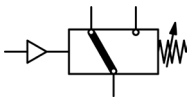
Mod.	L	Max. switch voltage	Max. switch current	Max. switch capacity	Max. fluid temperature	Max. pressure	Setting range	Weight
PM681-1	1 m	48 V	0,5 A	10 W	60°C	20 bar	1 ÷ 6 bar	95 g
PM681-3	3 m	48 V	0,5 A	10 W	60°C	20 bar	1 ÷ 6 bar	95 g

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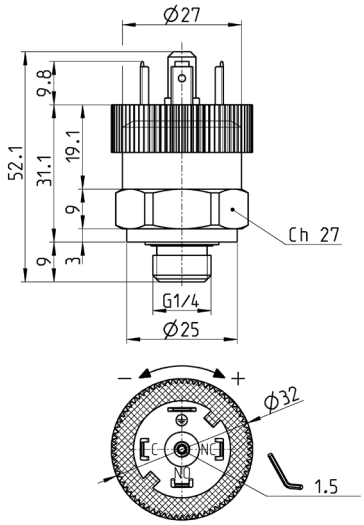
Pressure switch with exchange contacts



Protection class IP65 (with connector Mod. 124-830).



PMSC



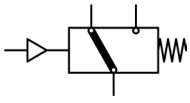
Mod.	Function	Max. voltage	Operating temperature	Actuation time	Setting range	Max. Hysteresis
PM11-SC	SC *	250V AC - 30V DC	-25°C +85°C	> 0,1 ms	2 ÷ 10 bar	0,8 bar
PM11-SCEX	SC *	250V AC - 30V DC	-25°C +85°C	> 0,1 ms	2 ÷ 10 bar	0,8 bar
PM11-SCUL	SC *	250V AC - 30V DC	-25°C +85°C	> 0,1 ms	2 ÷ 10 bar	0,8 bar

* SC = Contact inverseur.

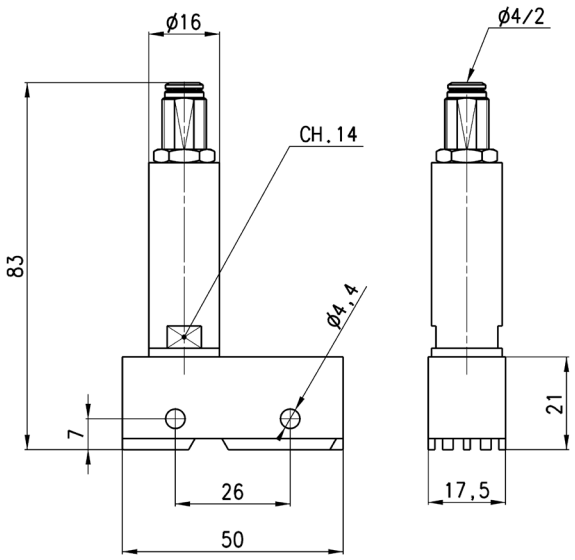
Electro-pneumatic transducer



Series TRP electro-pneumatic transducer is particularly suitable to convert a pneumatic signal into an electrical signal. The contacts are NC (Normally Closed) or NO (Normally Open), thus making it possible to generate or eliminate current when the pneumatic signal is present. Minimum operating pressure 2,5 bar.



TRP1



Mod.
TRP-8

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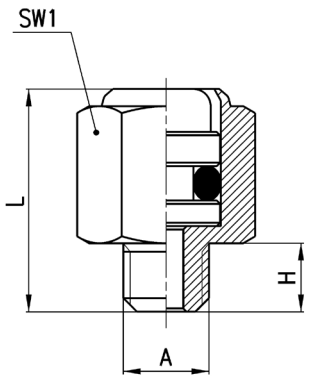
Pressure indicators





SEG1

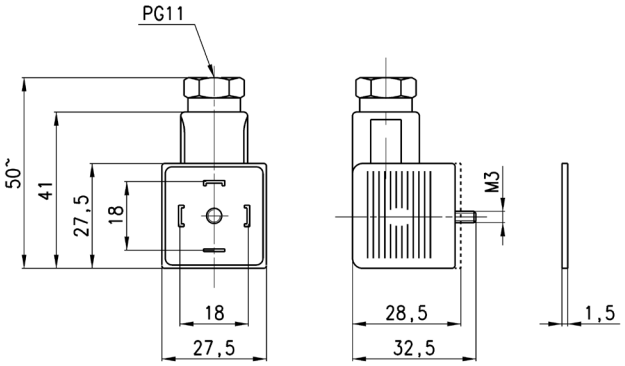
The pressure indicator Mod. 2950-M5 is passive element (no spring, red colour). It is useful for detecting pressure manually without having to remove the connections.



Mod.	A	H	L	SW1
2950 M5	M5	4	13,5	8

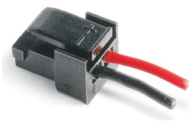
Pressure switches, Transducers, Pressure indicators Series PM, Series TRP, Series 2950

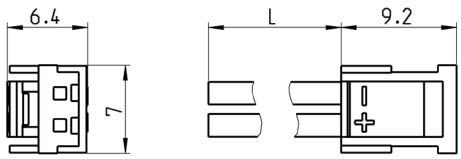




Mod.	Description	Colour	Working voltage	Cable gland	Tightening torque
124-830	Three-pole connector without electronics	Black	-	PG9/PG11	0,5 Nm
124-830EX	Three-pole ATEX connector without electronics	Black	-	PG9/PG11	0,5 Nm

Connector with flying leads





Mod.	Description	Colour	Cable length [mm]	Cable holding
121-803	Crimped cable	Black	300	Crimping
121-806	Crimped cable	Black	600	Crimping
121-810	Crimped cable	Black	1000	Crimping
121-830	Crimped cable	Black	3000	Crimping

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