



## **CATALOGUE**

Proximity switches for magnetic cylinders

Pressure switches



Our company is organised and committed to seek continuous improvements at every level.

Innovation and our ability to support our customers with dedicated solutions allow us to be the ideal partner for companies looking for high levels of quality and service.

Our technical catalogues illustrate the standard range of products manufactured. In addition our product portfolio also includes a wide and diverse range of custom products designed to satisfy the specific technical requirements of our customers. This characteristic is demonstrated by our focus on the products technical development, by the use of innovative injection moulding techniques and materials and in the design of the products dedicated electrical features.

Our commitment to innovation in terms of organisation, the traceability of all of the various processes together with our ability and desire to constantly support our customers from the products conception and throughout its complete lifetime allows our company to cooperate Internationally with market leading organization in the following market sectors:

- Agriculture Forestry Farming
- AIR WATER FLUID STEAM GAS
- AUTOMOTIVE
- Construction Earthmoving
- Energy Petrochemical
- Food Beverage Vending
- Industrial Automation Robotics
- Marine Ports
- MINING QUARRYING CEMENT MIXING
- Packaging
   Bottling
- Power Transmission Hydraulics Pneumatics
- Transport Services
- Transfer Machines Assembly

Reference rules:

IEC 60335-1 Household and similar electrical appliances - Safety IEC 60730-1 Automatic electrical controls for household and similar use Safety of machinery Electrical equipment of machines IEC 60204-1

2014/35 UE Low voltage Directive

2011/65/UE Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipments (RoHS)

EC N°1907/2006 Regualtion concerning the registration, evaluation,

authorization and restriction of chemicals (REACH)

We always recommend to contact our technical department for the most significant values. The company reserves the right to modify what is reported on specifications and drawings without notice due to technical or commercial reasons.

All technical data contained in this catalogue considers that our connectors are being used as connecting devices which in normal use (when under load) should not be inserted or withdrawn from any mating device.

With reference to CE marking, it should be noted that electronic components such as connectors are not subject to any form of marking and therefore must not be marked with a CE mark. This is confirmed within the conditions of the European Commission for Low Voltage and EMC guidelines.

Our connectors are developed and designed for the use in the field of equipment, control and electrical appliances. They can also be used in other applications under the responsibility of the user.

Any connecting wires should be stripped only so far that distances to conductive parts are not shortened.

When wires are crimped or soldered care should be taken to ensure that no single strands are exposed in order to prevent a short circuit.

The drawings and the technical data reported on the data sheets have been checked and are believed to be correct. However no liability is accepted therefore.





#### Atam Group. Innovation and technology.

Since 1992 Atam Group produces components for the automatic regulation and, more in general, for the wide market of industrial automation and engineering oil hydraulic. The group was born with the common intention to diversify strategies and researches with the purpose of completely satisfy the customer. The continuous technological evolution, oriented to anticipate the market demands and the competition, allows Atam Group to be an active and trusted partner in order to grant the maximum performances of each product.







Encapsulated coils Electromagnets Electrical windings







Operators











Operators for solenoid valves







Connecting devices for actuators and sensors Proximity switches







Proximity switches for magnetic cylinders Pressure switches

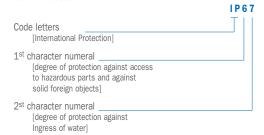


#### **Degree of protection (IP-Code)**

Connectors have to be protected for safety reasons from outside influences like dust, foreign objects, direct contact, moisture and water.

This protection is provided on industrial connectors by its housing with their latching devices and sealed cable entries. The degree of protection can be selected depending on the type of intended use.

The standard IEC EN60529 has specified the degree of protection and divided into several classes.



#### **DEGREES OF PROTECTION against ACCESS to hazardous** parts indicated by the first characteristic numeral

FIRST characteristic	DEGREE OF PROTECTION			
numeral	Brief Description	Definition		
0	Non-protected			
1	Protected against access to hazardous parts with sphere of 50 r the back of a hand have adequate from hazardou			
2	Protected against access to hazardous parts with with a finger	The jointed test finger of 12 mm Ø 80 mm lenght shall have adequate clearance from hazardous parts		
3	Protected against access to hazardous parts with a tool	The access probe of 2,5 mm Ø shall not penetrate		
4	Protected against access to hazardous parts with a wire	The access probe of 1,0 mm Ø shall not penetrate		
5	Protected against access to hazardous parts with a wire	The access probe of 1,0 mm Ø shall not penetrate		
6	Protected against access to hazardous parts with a wire	The access probe of 1,0 mm Ø shall not penetrate		

## DEGREES OF PROTECTION against SOLID foreingn objects indicated by the first characteristic numeral

FIRST	DEGREE OF PROTECTION				
characteristic numeral	Brief Description	Definition			
0	Non-protected				
1	Protected against solid foreign objects of ≥ 50 mm Ø and greater	To object probe sphere of 50 mm Ø shall not fully penetrate			
2	Protected against solid foreign objects of ≥ 12,5 mm Ø and greater	To object probe sphere of 12,5 mm Ø shall not fully penetrate			
3	Protected against solid foreign objects of ≥ 2,5 mm Ø and greater	To object probe sphere of 2,5 mm Ø shall not fully penetrate			
4	Protected against solid foreign objects of ≥ 1,0 mm Ø and greater  To object probe sphere of 1,0 m shall not fully penetrate				
5	Ingress of dust it totally prevented but dust shall not in a quantity to it with satisfactory of the apparatus impair safety				
6	Dust-tight	No ingress of dust			

#### **DEGREES OF PROTECTION against WATER** indicated by the second characteristic numeral

SECOND	DEGREE OF PROTECTION			
characteristic numeral	Brief Description	Definition		
0	Non-protected			
1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effets		
2	Protected against vertically falling water drops when up to 15°	Vertically falling drops shall have no harmful effets when the enclosure is tilted at any angle up to 15° on either side of the vertical		
3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects		
4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effects		
5	Protected against water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects		
Protected against powerful water jets		Water projected in powerful jets against the enclosure from any direction shall have no harmful effects		
7	Protected against immersion in water	Ingress of water in quantities the effects of temporary causing harmful effets shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time		
8	Protected against the effects of continuous immersion in water	Ingress of water is quantities causing harmful effets shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe then for numeral 7		
IP69K in according to DIN40050-9	Protected against the effects due to cleaning with hot water pressure jet	The water jet sprayed aganist the enclosure, in the conditions of pressure and temperature standardized, have no harmful effects		







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# **Cross index**

		ST-01	ST-02	ST-03	ST-04	ST-05	ST-06	ST-07
		Proximity switch for cylinder with square grooves 4x4mm	Proximity switch for cylinder with round grooves Ø4mm	Proximity switch for cylinder with round grooves Ø4mm with	Proximity switch with metal hou- sing for pneumatic and hydraulic	Proximity switch for high temperature	Proximity switch for T-slot cylinder	Mirco proximity switch for cylinder with round
		-A-HIIII		vertical output	cylinders		1	grooves Ø4mm
		pag. 12	pag. 13	pag. 14	pag. 15	pag. 16	pag. 17	pag. 18
Round cylinder	5				•	•		
ISO profile cylinder								
Tie-rod cylinder	5				•	•		
4 x 4 Slot	3,05							
SMC C Slot	94.25 94.25							
FESTO T Slot	5.60							
NORGREN C Slot	5.50							
FESTO T Slot 2	5.60							
SMC T Slot	5							
FESTO C Slot	3.05							

	ST-08	ST-09	ST-10	ST-11	ST-12	ST-13	ST-14	ST-15	SK
	Mirco proximity switch for cylinder with round groo- ves Ø4mm with	Proximity switch for cylinder with round grooves Ø6,5mm	Proximity switch for round cylinder	Proximity switch for cylinder with	Proximity switch for cylinder with	Proximity switch for cylinder with T-grooves	Proximity switch for cylinder with round grooves Ø3,7 mm	Proximity switch for cylinder with T-grooves	Proximity switch for cylinder with T-grooves
	vertical 🔳	Ø6,5mm	cylinder	T-grooves height 3,5mm	T-grooves height 3,3mm	rgrooves	Ø3,7 mm	1-8100/03	1-8100/03
	output								
	pag. 19	pag. 20	pag. 21	pag. 22	pag. 23	pag. 24	pag. 25	pag. 26	pag. 28
inder									
Round cylinder									
ISO profile cylinder									
SO profile									
Tie-rod cylinder									
Tie-rc									
절									
4 x 4 Slot									
SMC C Slot									
SMC									
to									
FESTO T Slot									
H									
C Slot									
NORGREN C Slot									
FESTO T Slot 2									
FEST0									
);									
SMC T Slot									
SI									
Slot									
FESTO C Slot									

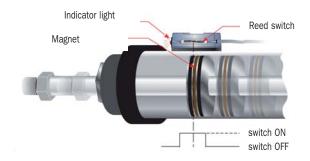


#### **Proximity switches**

OPERATING AND INSTALLING

#### **REED SWITCH TYPE**

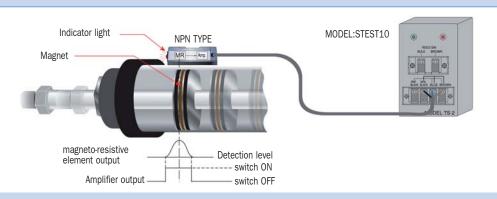
When the piston's magnet approaches the proximity switch, the internal reed switch will detect the change of magnetic field and close the contacts.



#### SOLID STATE TYPE

When the piston's magnet approaches the proximity switch, the internal magneto-resistive element can detect the change for magnetic field and cause a tiny voltage change.

Switching output is achieved when this signal is amplified by the operation amplifier circuit in the proximity switch.



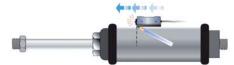
#### HOW TO INSTALL THE PROXIMITY SWITCH

#### > END OF STROKE DETECTION

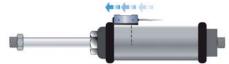
> STEP 1 Set the piston to the end of stroke position.



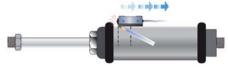
> STEP 2 Slide the proximity switch forward and keep it close to the cylinder wall. Make a mark at the proximity switch turn-on point.



> STEP 3



> STEP 4 Slide the proximity switch backward until the switch turns back on and make a mark.



> STEP 5 The intermediate position between the 2 marks will be the most ideal position.



#### > INTERMEDIATE STROKE POSITION

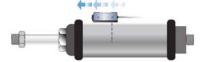
> STEP 1 Set the piston to the required position.



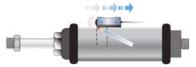
> STEP 2 Slide the proximity switch forward and keep it close to the cylinder wall. Make a mark at the proximity switch turn-on point.



Slide the proximity switch forward continuosly until the switch turns off. > STEP 3 Slide the proximity switch forward continuosly until the switch turns off.



> STEP 4 Slide the proximity switch backward until the switch turns back on and make a mark.



> STEP 5 The intermediate position between the 2 marks will be the most ideal position.

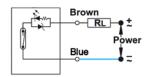




#### **Proximity switches**

CAUTION

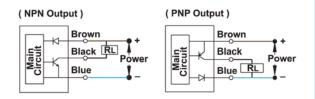
- ▶ 1 Do not exceed specification, permanent damage to the proximity switch may occur.
- > 2 For reed switch type, polarity must also be observed for the proper function of LED. Connect the brown wire in series with load positive (+) and the blue wire to negative (-) of power source. If the polarity is reversed, reed switch remain functional but LED will remain in "OFF" state.



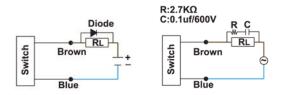
**3** For solid-state type, polarity must also be observed. Connect brown wire to the positive (+) and the blue to the negative (-) of DC power source.

The black wire must connect to the load only.

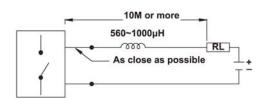
If the black wire is accidentally connected to the power source, permanent damage to the proximity switch may occur.



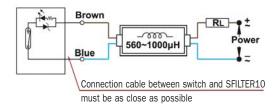
> 4 An external protection circuit may be required if the reed switch is used with inductive load, such as relay or solenoid. For DC inductive load, attach an external diode parallel to the load and use R-C circuit parallel with AC inductive load as illustrated below.

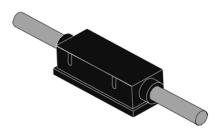


- > 5 Keep proximity switchs away form strong magnetic field to prevent malfunctions.
- > 6 When using reed switch with capacitive load or if the lead wire lenght exceed 10-meter, an inductor (560  $\sim$  1000  $\mu$ H) or SR-1 (surge suppressor) must be installed in series with the proximity switch to prevent damage (Sticking effect).

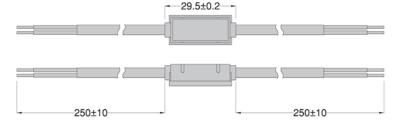


#### Model:SFILTER10 (Surge Suppressor)





#### Dimension (unit mm)







### Proximity switches **ST01** series

PROXIMITY SWITCH FOR CYLINDER WITH SQUARE GROOVES 4X4MM





Product description	Reed 2 wire N/O	Solid state output 2 wire
Housing material	PA Black	PA Black
Number of contacts	2	2
Cable type	PUR GREY Ø 2,8mm	PUR GREY Ø 2,8mm
Order no.	ST01R2PK2200	ST01H2PK2200
Other standard types cable length 5m	ST01R2PK2500	ST01H2PK2500
M8	ST01R2PK2M8 (rated voltage only 5-50V)	ST01H2PK2M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-120V AC/DC	10-28V DC
Current max.	100 mA max.	4-40mA max.
Power max.	10W	1,5 W
Voltage drop max.	3,5V	3,5V
LED colour	RED	RED
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529) <b>Drawing</b>	IP67	IP67
3,05	BRN + + POWER BLU - ~	BRN RL + DC10 - 28V
25,50 150±10		
25.50 150±10	BRN BLK POWER	BRN BLK RL POWER BLU
	BLU RL POWER	BLK RL POWER
Product description	PNP 3 wire N/0	NPN 3 wire N/0
Product description Housing material	PNP 3 wire N/0 PA Black	NPN 3 wire N/O PA Black
Product description Housing material Number of contacts	PNP 3 wire N/0 PA Black 3	NPN 3 wire N/O PA Black 3
Product description Housing material Number of contacts Cable type	PNP 3 wire N/0 PA Black 3 PUR BLACK Ø 2,8mm	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm
Product description  Housing material  Number of contacts  Cable type  Order no.	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5m	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500
Product description Housing material Number of contacts Cable type Order no. Other standard types  Cable length 5m  M8	PNP 3 wire N/0 PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC
Product description  Housing material Number of contacts Cable type Order no. Other standard types cable length 5m  M8  Temperature range Rated voltage	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C
Product description  Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max.	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC
Product description  Housing material Number of contacts Cable type Order no. Other standard types cable length 5m  M8  Temperature range Rated voltage Current max. Power max.	PNP 3 wire N/0 PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max. Power max. Voltage drop max.	PNP 3 wire N/0 PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V
Product description  Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V GREEN	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V RED
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour Mounting	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V GREEN Slot screw	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V RED Slot screw
Product description  Housing material Number of contacts Cable type Order no. Other standard types cable length 5m M8  Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H3PK3200 ST01H3PK3500 ST01H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V GREEN	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,8mm ST01H4PK3200 ST01H4PK3500 ST01H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V RED



## Proximity switches **\$T02** series

PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø4MM





Product description	Reed 2 wire N/O	Solid state output 2 wire	
Housing material	PA Black	PA Black	
Number of contacts	2	2	
Cable type	PUR GREY Ø 2,8mm	PUR GREY Ø 2,8 mm	
Order no.	ST02R2PK2200	ST02H2PK2200	
Other standard types cable length 5m	ST02R2PK2500	ST02H2PK2500	
M8	ST02R2PK2M8 (rated voltage only 5-50V)	STO2H2PK2M8	
	min -10°C max 70°C		
Temperature range		min -10°C max 70°C	
Rated voltage	5-120V AC/DC	10-28V DC	
Current max.	100 mA max.	4-40mA max.	
Power max.	10W	1,5 W	
Voltage drop max.	3,5V	3,5V	
LED colour	RED	RED	
Mounting	Slot screw	Slot screw	
Fixing screw torque	With accuracy	With accuracy	
Protection class (EN 60529)	IP67	IP67	
Drawing	<b>A</b>	<b>A</b>	
3.05 29 20 20 4.25	POWER BLU -	BRN RL +  OC10  Z88V	
25.5 150±10	BRN + HOWER BLU RL	BRN BLK RL POWER BLU	
Product description	PNP 3 wire N/O	NPN 3 wire N/O	
Housing material	PA Black	PA Black	
Number of contacts	3	3	
Cable type	PUR GREY Ø 2.8mm	PUR GREY Ø 2,8 mm	
22.0 770			
Order no	, .	1 1	
Order no.	ST02H3PK3200	ST02H4PK3200	
Other standard types cable length 5m	ST02H3PK3200 ST02H3PK3500	ST02H4PK3200 ST02H4PK3500	
Other standard types cable length 5m M8	ST02H3PK3200 ST02H3PK3500 ST02H3PK3M8	ST02H4PK3200 ST02H4PK3500 ST02H4PK3M8	
Other standard types cable length 5m  M8  Temperature range	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min :10°C max 70°C	
Other standard types cable length 5m  M8  Temperature range Rated voltage	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC	
Other standard types cable length 5m  M8  Temperature range  Rated voltage  Current max.	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max.	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max.	
Other standard types cable length 5m  M8  Temperature range Rated voltage  Current max.  Power max.	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W	
Other standard types cable length 5m  M8  Temperature range Rated voltage  Current max.  Power max.  Voltage drop max.	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V	
Other standard types cable length 5m  M8  Temperature range Rated voltage  Current max.  Power max.	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W	
Other standard types cable length 5m  M8  Temperature range Rated voltage Current max. Power max.  Voltage drop max.	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V	
Other standard types cable length 5m  M8  Temperature range Rated voltage Current max.  Power max.  Voltage drop max.  LED colour	\$T02H3PK3200 \$T02H3PK3500 \$T02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V GREEN	\$T02H4PK3200 \$T02H4PK3500 \$T02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V RED	
Other standard types cable length 5m  M8  Temperature range Rated voltage Current max.  Power max.  Voltage drop max.  LED colour  Mounting	ST02H3PK3200 ST02H3PK3500 ST02H3PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V GREEN Slot screw	ST02H4PK3200 ST02H4PK3500 ST02H4PK3M8 min -10°C max 70°C 5-30V DC 200 mA max. 6W 1V RED Slot screw	



### Proximity switches **\$T03** series

PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø4MM WITH VERTICAL OUTPUT





Product description	Reed 2 wire N/O	PNP 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR GREY Ø 2,8 mm	PUR BLACK Ø 2,8 mm
Order no.	ST03R2PK2200	ST03H3PK3200
Other standard types cable length 5m	ST03R2PK2500	ST03H3PK3500
M8	ST03R2PK2M8 (rated voltage only 5-50V)	ST03H3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-120V AC/DC	5-30V DC
Current max.	50 mA max.	50 mA max.
Power max.	6W	1,5W
Voltage drop max.	2,5V	1,5V
LED colour	RED	GREEN
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing		
3,05 94,25 01 13 13 14 14	BRN BLW POWER BLU POWER BL	BRN POWER BLU RL POWER
22.5	▼	
Product description	NPN 3 wire N/O	
Housing material	PA Black	
Number of contacts	3	
Cable type	PUR BLACK Ø 2,8mm	
Order no.	ST03H4PK3200	
Other standard types cable length 5m	ST03H4PK3500	
M8	ST03H4PK3M8	
Temperature range	min -10°C max 70°C	
Rated voltage	5-30V DC	
Current max.	50 mA max.	
Power max.	1,5W	
Voltage drop max.	1,5V	
LED colour	RED	
Mounting	Slot screw	
Fixing screw torque	With accuracy	
Protection class (EN 60529)	IP67	
Notes	•	
		l .



### Proximity switches **\$T04** series

PROXIMITY SWITCH WITH METAL HOUSING FOR PNEUMATIC AND HYDRAULIC CYLINDERS





Product description	Reed 2 wire N/O	PNP 3 wire N/0
Housing material	, ,	
Number of contacts	2	3
Cable type	PVC GREY Ø 3,9mm	PVC GREY Ø 4mm
Order no.	ST04R6PK2200	ST04H3PK3200
Other standard types cable length 5m	ST04R6PK2500	ST04H3PK3500
Other standard types cable length of M8		ST04H3PK3M8
	ST04R6PK2M8 (rated voltage only 5-50V)	
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	5-30V DC
Current max.	100 mA max.	200 mA max.
Power max.	10W	6W
Voltage drop max.	3,5V	1,5V
LED colour	GREEN	GREEN
Mounting	With bracket or clamp	With bracket or clamp
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	<b>A</b>	<b>A</b>
27,9 150±10	BRN POWER BLU -	BRN BLK POWER BLU RL POWER
	BRN POWER BLU	
	▼	
Product description	NPN 3 wire N/O	
Housing material		
Number of contacts	3	
Cable type	PVC GREY Ø 4mm	
Order no.	ST04H4PK3200	
Other standard types cable length 5m	ST04H4PK3500	
M8	ST04H4PK3M8	
Temperature range	min -10°C max 70°C	
Rated voltage	5-30V DC	
Current max.	200 mA max.	
Power max.	6W	
Voltage drop max.	1,5V max.	
LED colour	RED	
Mounting	With bracket or clamp	
Fixing screw torque	With accuracy	
Protection class (EN 60529)	IP67	
Notes		
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### Proximity switches **\$T05** series

PROXIMITY SWITCH FOR HIGH TEMPERATURE



Product description	Reed 2 wire N/O	
Housing material	Al (Stainless steel available)	
Number of contacts	2	
Cable type	TEFLON BLACK Ø 3 mm	
Order no.	ST05Z1TK2500	
Other standard types cable length 10	ST05Z1TK210X	
M8	Not available	
Temperature range	min -10°C max 140°C	
Rated voltage	5 - 240V AC/DC	
Current max.	500 mA max.	
Power max.	10W	
Voltage drop max.	0,5V	
LED colour	-	
Mounting	only with bracket or clamp	
Fixing screw torque	With accuracy	
Protection class (EN 60529)	IP67	
Drawing 30 L.	BRN POWER BLU -	
= 12		



## Proximity switches **\$T06** series

PROXIMITY SWITCH FOR T-SLOT CYLINDER





	P 10 1 N/0	- 10 1 W/O
Product description	Reed 2 wire N/O	Reed 3 wire N/O
Housing material	PA black	PA black
Number of contacts	2	3
Cable type	PVC BLACK Ø 3mm	PVC BLACK Ø 3mm
Order no.	ST06R6CK2200	ST06R3CK3200
Other standard types cable length 5m	ST06R6CK2500	ST06R3CK3500
M8	ST06R6CK2M8 (rated voltage only 5~50V)	ST06R3CK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10 - 30V AC/DC
Current max.	100 mA max.	500 mA max.
Power max.	10W	10W
Voltage drop max.	3,5V	0,1V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	•	•
5.60	BRN RL + + POWER BLU - ~	BRN BLK POWER BLU RL
29,5	BRN + + POWER BLU RL POWER	BRN BLK RL POWER BLU
Product description	PNP 3 wire N/0	NPN 3 wire N/O
Housing material	PA black	PA black
Number of contacts	3	3
Cable type	PVC BLACK Ø 3,3mm	PVC BLACK Ø 3,3 mm
Order no.	ST06H3CK3200	ST06H4CK3200
Other standard types cable length 5m	ST06H3CK3500	ST06H4CK3500
M8	ST06H3CK3M8	ST06H4CK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
•	10-30V DC	10-30V DC
Rated voltage		
Current max.	100 mA max.	100 mA max. 3W
Power max.	3W	1,5V max.
Voltage drop max.	1,5V max.	
LED colour	YELLOW	RED
Mounting	With bracket or clamp	With bracket or clamp
Fixing screw torque	Slot screw	Slot screw
Protection class (EN 60529)	IP67	IP67
Notes		



### Proximity switches **\$T07** series

MIRCO PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø4MM





Product description	Solid state output 2 wire	PNP 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PVC BLACK Ø 2,6mm	PVC BLACK Ø 2,6mm
Order no.	ST07H2CK2200	ST07H3CK3200
Other standard types cable length 5m	ST07H2CK2500	ST07H3CK3500
Other standard types cable length of M8	ST07H2CK2500 ST07H2CK2M8	ST07H3CK3900 ST07H3CK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	10~28V DC	4,5-28V DC
Current max.	4-20 mA max.	50mA max.
Power max.	0,6W	1,5 W
Voltage drop max.	3,5V	0,5V
LED colour	RED	RED
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	<b>A</b>	<b>A</b>
Ø 4,25	BRN RL +  DC10  Z28V	BRN + BLU RL -
14.2 165±10	BRN BLK RL POWER BLU	
Product description	NPN 3 wire N/O	
Housing material	PA Black	
Number of contacts	3	
Cable type	PVC BLACK Ø 2,6mm	
Order no.	ST07H4CK3200	
Other standard types cable length 5m	ST07H4CK3500	
	STO7H4CK3M8	
M8		-
Temperature range	min -10°C max 70°C	
Rated voltage	4,5-28V DC	
Current max.	50mA max.	
Power max.	1,5 W	
Voltage drop max.	0,5V	
LED colour	RED	
Mounting	Slot screw	
Fixing screw torque	With accuracy	
		+
Protection class (EN 60529)	IP67	



### Proximity switches **ST08** series

MIRCO PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø4MM WITH VERTICAL OUTPUT





Product description	Solid state output 2 wire	PNP 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PVC BLACK Ø 2,6mm	PVC BLACK Ø 2,6mm
Order no.	ST08H2CK2200	ST08H3CK3200
Other standard types cable length 5m	ST08H2CK2500	ST08H3CK3500
M8	ST08H2CK2M8	STO8H3CK3M8
	min -10°C max 70°C	min -10°C max 70°C
Temperature range		
Rated voltage	10-28V DC	4,5-28V DC
Current max.	4~20 mA max.	50mA max.
Power max.	0,6W	1,5 W
Voltage drop max.	3,5V	0,5V
LED colour	RED	RED
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing 3.05  91  91  14	BRN BLU POWER BLU POWER BLU	BRN POWER BLU RL -
Product description	NPN 3 wire N/O	
Housing material	PA Black	
Number of contacts	3	
Cable type	PVC BLACK Ø 2,6mm	
Order no.	ST08H4CK3200	
Other standard types cable length 5m		
outer ordinary () poo	ST08H4CK3500	
M8	ST08H4CK3M8	
M8		
M8 Temperature range	<b>ST08H4CK3M8</b> min -10°C max 70°C	
M8 Temperature range Rated voltage	<b>ST08H4CK3M8</b> min -10°C max 70°C 4,5-28V DC	
M8 Temperature range Rated voltage Current max.	ST08H4CK3M8 min -10°C max 70°C 4,5-28V DC 50mA max.	
M8 Temperature range Rated voltage Current max. Power max.	ST08H4CK3M8 min -10°C max 70°C 4,5-28V DC 50mA max. 1,5 W	
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max.	ST08H4CK3M8 min -10°C max 70°C 4,5-28V DC 50mA max. 1,5 W 0,5V	
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	\$T08H4CK3M8 min -10°C max 70°C 4,5-28V DC 50mA max. 1,5 W 0,5V RED	
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour Mounting	## ST08H4CK3M8  min -10°C max 70°C  4,5-28V DC  50mA max.  1,5 W  0,5V  RED  Slot screw	
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	\$T08H4CK3M8 min -10°C max 70°C 4,5-28V DC 50mA max. 1,5 W 0,5V RED	



### Proximity switches **\$T09** series

PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø6.5MM





Product description	Reed 2 wire N/O	PNP 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR GREY Ø 2,8mm	PUR BLACK Ø 2,8mm
Order no.	ST09R6PK2200	ST09H3PK3200
		ST09H3PK3500
Other standard types cable length 5m	ST09R6PK2500	
M8	ST09R6PK2M8 (rated voltage only 5-50V)	ST09H3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10-30V DC
Current max.	100 mA max.	100mA max.
Power max.	10W	3W
Voltage drop max.	2,5V	1,5V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	<b>A</b>	<b>A</b>
5.50 0 0 0 0 0 0 0 0 0 0 0 0 0	BRN RL + + POWER BLU - ~	BRN + BLU RL POWER
31 300±20 UIII	DEN BLK RL POWER BLU POWER	
Product description	NPN 3 wire N/O	
Housing material	PA Black	
Number of contacts	3	
Cable type	PUR BLACK Ø 2,8mm	
Order no.	ST09H4PK3200	
Other standard types cable length 5m	ST09H4PK3500	
M8	ST09H4PK3M8	
Temperature range	min -10°C max 70°C	
Rated voltage	10-30V DC	
Current max.	100mA max.	
Power max.	3W	
	1,5V	
		+
Voltage drop max.	RED	
LED colour	RED Slot screw	
LED colour Mounting	Slot screw	
LED colour		



## Proximity switches **ST10** series

PROXIMITY SWITCHES FOR ROUND CYLINDER





Product description	Reed 2 wire N/0	PNP 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PVC GREY Ø 3,3mm	PVC BLACK Ø 3,3mm
Order no.	ST10R6CK2200	ST10H3CK3200
Other standard types cable length 5m	ST10R6CK2500	ST10H3CK3500
M8	ST10R6CK2M8 (rated voltage only 5-50V)	ST10H3CK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	5-28V DC
Current max.	100 mA max.	50mA max.
Power max.	10W	1,5W
Voltage drop max.	2,5V	1,5V
LED colour	RED	GREEN
Mounting	Slot screw	Slot screw
Fixing screw torque	Only with bracket	Only with bracket
Protection class (EN 60529)	IP67	IP67
Drawing	•	
-	<b>A</b>	<b>A</b>
28 150±10	POWER BLU -	BRN + BLW POWER BLU RL -
\$\frac{1}{8}	BRN BLK RL POWER BLU POWER	
Product description	NPN 3 wire N/O	
Housing material	PA Black	
Housing material	ו ע הומהע	
Number of contacts	3	
Number of contacts Cable type	3 PVC BLACK Ø 3 3mm	
Cable type	PVC BLACK Ø 3,3mm	
Cable type Order no.	PVC BLACK Ø 3,3mm <b>ST10H4CK3200</b>	
Cable type Order no. Other standard types cable length 5m	PVC BLACK Ø 3,3mm <b>ST10H4CK3200</b> <b>ST10H4CK3500</b>	
Cable type Order no. Other standard types  Cable length 5m  M8	PVC BLACK Ø 3,3mm <b>ST10H4CK3200</b> <b>ST10H4CK3500</b> <b>ST10H4CK3M8</b>	
Cable type Order no. Other standard types cable length 5m M8 Temperature range	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C	
Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC	
Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max.	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.	
Cable type Order no. Other standard types  Cable length 5m  M8 Temperature range Rated voltage Current max. Power max.	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.  1,5W	
Cable type Order no. Other standard types cable length 5m M8 Temperature range Rated voltage Current max.	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.	
Cable type Order no. Other standard types  Cable length 5m  M8 Temperature range Rated voltage Current max. Power max.	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.  1,5W	
Cable type Order no. Other standard types  Cable length 5m  M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.  1,5W  1,5V  RED	
Cable type Order no. Other standard types  Cable length 5m  M8  Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour Mounting	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.  1,5W  1,5V  RED  Slot screw	
Cable type Order no. Other standard types  Cable length 5m  M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	PVC BLACK Ø 3,3mm  ST10H4CK3200  ST10H4CK3500  ST10H4CK3M8  min -10°C max 70°C  5-28V DC  50mA max.  1,5W  1,5V  RED	



### Proximity switches **ST11** series

PROXIMITY SWITCH FOR CYLINDER WITH T-GROOVES (HEIGHT 3.5MM)





Product description	Reed 2 wire N/O	Reed 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR GREY Ø 3mm	PUR BLACK Ø 3mm
Order no.	ST11R6PK2200	ST11R3PK3200
Other standard types cable length 5m	ST11R6PK2500	ST11R3PK3500
M8	ST11R6PK2M8 (rated voltage only 5-50V)	ST11R3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10-30V AC/DC
Current max.	100 mA max.	500mA max.
Power max.	10W	10W
Voltage drop max.	3V	0,1V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	<b>A</b>	€.
5,60	BRN POWER BLU -	BRN BLK POWER BLU RL
30 300±20	MARIN CIRCUIT BRN BRN BRN BRN POWER BLU RL	BRN BLK RL POWER BLU
Product description	PNP 3 wire N/O	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	PUR BLACK Ø 3mm	PUR BLACK Ø 3mm
Order no.	ST11H3PK3200	ST11H4PK3200
Other standard types cable length 5m	ST11H3PK3500	ST11H4PK3500
M8	ST11H3PK3M8	ST11H4PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	10-30V DC	10-30V DC
Current max.	200mA max.	200mA max.
Power max.	6W	6W
Voltage drop max.	1,5V	1,5V
LED colour	YELLOW	RED
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
	IP67	IP67
Protection class (EN 60529)	IFO1	11 07



## Proximity switches **ST12** series

PROXIMITY SWITCH FOR CYLINDER WITH T-GROOVES (HEIGHT 3.3MM)





Product description	Reed 2 wire N/O	Reed 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR GREY Ø 3mm	PUR BLACK Ø3mm
Order no.	ST12R6PK2200	ST12R3PK3200
Other standard types cable length 5m	ST12R6PK2500	ST12R3PK3500
M8	ST12R6PK2M8 (rated voltage only 5~50V)	ST12R3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10-30V AC/DC
Current max.	100 mA max.	500mA max.
Power max.	10W	10W
Voltage drop max.	3V	0,1V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing _	<b>A</b>	<b>A</b>
5,60	BRN RL + POWER BLU -	BRN BLK POWER BLU RL
	BRN + BLW POWER BLU RL POWER	BRN POWER BLU
6,1	▼	▼
Product description	PNP 3 wire N/0	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	PUR BLACK Ø 3mm	PUR BLACK Ø 3mm
Order no.	ST12H3PK3200	ST12H4PK3200
Other standard types cable length 5m	ST12H3PK3500	ST12H4PK3500
M8	ST12H3PK3M8	ST12H4PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	10-30V DC	10-30V DC
Current max.	200mA max.	200mA max.
Power max.	6W	6W
Voltage drop max.	1,5V	1,5V
LED colour	YELLOW	RED
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67

Solid state 2 Wire, Reed N/C and PNP N/C

Notes

Version available:



### Proximity switches **ST13** series

PROXIMITY SWITCH FOR CYLINDER WITH T-GROOVES





Product description	Reed 2 wire N/0	Reed 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR BLACK Ø 3mm	PUR BLACK Ø 3mm
Order no.	ST13R6PK2200	ST13R3PK3200
Other standard types cable length 5m	ST13R6PK2500	ST13R3PK3500
M8	ST13R6PK2M8 (rated voltage only 5-50V)	ST13R3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10-30V DC
Current max.	100 mA max.	500mA max.
Power max.	10W	10W
Voltage drop max.	3,5V	0,1V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing	<b>A</b>	<b>A</b>
6,30	BRN POWER BLU -	BRN + + BLK POWER BLU RL
29.5 150±10	BRN BRN POWER BLU RL POWER POW	BRN BLK RL POWER BLU
Product description	PNP 3 wire N/O	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	PUR BLACK Ø 3mm	PUR BLACK Ø 3mm
Order no.	ST13H3PK3200	ST13H4PK3200
and the state of t	ST13H3PK3500	ST13H4PK3500
<u> </u>		
M8	ST13H3PK3M8	ST13H4PK3M8
M8	<b>ST13H3PK3M8</b> min -10°C max 70°C	min -10°C max 70°C
M8 Temperature range	ST13H3PK3M8	
M8 Temperature range Rated voltage	<b>ST13H3PK3M8</b> min -10°C max 70°C	min -10°C max 70°C
M8 Temperature range Rated voltage Current max.	<b>ST13H3PK3M8</b> min -10°C max 70°C 10-30V DC	min -10°C max 70°C 10-30V DC 100mA max.
M8 Temperature range Rated voltage Current max. Power max.	ST13H3PK3M8 min -10°C max 70°C 10-30V DC 100mA max. 3W	min -10°C max 70°C 10-30V DC 100mA max. 3W
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max.	ST13H3PK3M8 min -10°C max 70°C 10-30V DC 100mA max. 3W 1,5V	min -10°C max 70°C 10-30V DC 100mA max. 3W 1,5V
M8 Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	### ST13H3PK3M8  min -10°C max 70°C  10-30V DC  100mA max.  3W  1,5V  YELLOW	min -10°C max 70°C 10-30V DC 100mA max. 3W 1,5V RED
<u> </u>	ST13H3PK3M8 min -10°C max 70°C 10-30V DC 100mA max. 3W 1,5V	min -10°C max 70°C 10-30V DC 100mA max. 3W 1,5V

IP67

Notes

Protection class (EN 60529)

IP67



## Proximity switches **ST14** series

PROXIMITY SWITCH FOR CYLINDER WITH ROUND GROOVES Ø3.7 MM





Product description	Reed 2 wire N/O	Reed 3 wire N/O
	PA Black	•
Housing material Number of contacts	111 - 1111	PA Black
	2	3
Cable type	PUR GREY Ø 2,5 mm	PUR GREY Ø 2,5mm
Order no.	ST14R2PK2200	ST14R3PK3200
Other standard types cable length 5m	ST14R2PK2500	ST14R3PK3500
M8	ST14R2PK2M8 (rated voltage only 5-50V)	ST14R3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-120V AC/DC	10-30V DC
Current max.	100 mA max.	500mA max.
Power max.	10W	10W
Voltage drop max.	3,5V	0,1V
LED colour	YELLOW	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
Drawing		
3,05	BRN RL + + POWER BLU - ~	BRN POWER BLU RL
22 150±10	BBN BRN POWER BLU RL	BRN POWER BLU
Product description	PNP 3 wire N/O	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	PUR GREY Ø 2,5 mm	PUR GREY Ø 2,5mm
Order no.	ST14H3PK3200	ST14H4PK3200
Other standard types cable length 5m	ST14H3PK3500	ST14H4PK3500
M8	ST14H3PK3M8	ST14H4PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	10-30V DC	10-30V DC
Current max.	200mA max.	200mA max.
Power max.	6W	6W
	0,5V	0,5V
Voltage drop max.		
LED colour	YELLOW	RED
LED colour Mounting	YELLOW Slot screw	Slot screw
LED colour  Mounting  Fixing screw torque	YELLOW	
LED colour Mounting	YELLOW Slot screw	Slot screw



### Proximity switches **ST15** series

PROXIMITY SWITCH FOR CYLINDER WITH T-GROOVES





Product description	Reed 2 wire N/O	Reed 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	PUR BLACK Ø 2,5mm	PUR BLACK Ø 2,5mm
Order no.	ST15R6PK2200	ST15R3PK3200
Other standard types cable length 5r		ST15R3PK3500
Other standard types Cable length of		ST15R3PK3M8
Temperature range	min -10°C max 70°C	min -10°C max 70°C
Rated voltage	5-240V AC/DC	10-30V DC
Current max.	100 mA max.	500mA max.
Power max.	10W	10W
Voltage drop max.	3V	0,1V
LED colour	RED	YELLOW
Mounting	Slot screw	Slot screw
Fixing screw torque	With accuracy	With accuracy
Protection class (EN 60529)	IP67	IP67
3,05 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7	BRN POWER BLU POWER BLU POWER BLU POWER	BRN BLK POWER BLU RL POWER BLU RL POWER BLU BLU
Product description Housing material Number of contacts	PNP 3 wire N/O PA Black 3	NPN 3 wire N/O PA Black 3
Product description Housing material Number of contacts Cable type	PNP 3 wire N/O PA Black 3 PUR BLACK Ø 2,5mm	NPN 3 wire N/O PA Black 3 PUR BLACK Ø 2,5mm
Product description Housing material Number of contacts Cable type Order no.	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200
Product description  Housing material  Number of contacts  Cable type  Order no.  Other standard types cable length 5r	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500
Product description  Housing material  Number of contacts  Cable type  Order no.  Other standard types  Cable length 5r	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8
Product description  Housing material  Number of contacts  Cable type  Order no.  Other standard types cable length 5r	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500  8 ST15H3PK3M8  min -10°C max 70°C	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C
Product description  Housing material  Number of contacts  Cable type  Order no.  Other standard types cable length 5r  M  Temperature range	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500  8 ST15H3PK3M8	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500  8 ST15H3PK3M8  min -10°C max 70°C	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage Current max.	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200  m ST15H3PK3500  8 ST15H3PK3M8  min -10°C max 70°C  10·30V DC	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage Current max. Power max.	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200 m ST15H3PK3500 8 ST15H3PK3M8 min -10°C max 70°C 10-30V DC 200mA max.  6W	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC  200mA max.  6W
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage Current max. Power max. Voltage drop max.	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200 m ST15H3PK3500 8 ST15H3PK3M8 min -10°C max 70°C 10-30V DC 200mA max.  6W 1,5V	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC  200mA max.  6W  1,5V
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200 m ST15H3PK3500 8 ST15H3PK3M8 min -10°C max 70°C 10-30V DC 200mA max.  6W 1,5V YELLOW	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC  200mA max.  6W  1,5V  RED
Product description Housing material Number of contacts Cable type Order no. Other standard types cable length 5r M Temperature range Rated voltage Current max. Power max. Voltage drop max. LED colour Mounting	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200 m ST15H3PK3500 8 ST15H3PK3M8 min -10°C max 70°C 10-30V DC 200mA max. 6W 1,5V YELLOW Slot screw	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC  200mA max.  6W  1,5V  RED  Slot screw
Product description  Housing material  Number of contacts  Cable type  Order no.  Other standard types cable length 5r	PNP 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H3PK3200 m ST15H3PK3500 8 ST15H3PK3M8 min -10°C max 70°C 10-30V DC 200mA max.  6W 1,5V YELLOW	NPN 3 wire N/O  PA Black  3  PUR BLACK Ø 2,5mm  ST15H4PK3200  ST15H4PK3500  ST15H4PK3M8  min -10°C max 70°C  10-30V DC  200mA max.  6W  1,5V  RED



## Proximity switches **ST16** series

PROXIMITY SWITCH WELD-FIELD IMMUNE



Product description	Solid state output
Housing material	PA Black
Number of contacts	2
Cable type	PVC GREY Ø 5,4mm
Order no.	ST16H2CK2200
Other standard types cable length 4m	ST16H2CK2400
M12	ST16H2CK2M12
Temperature range	min -10°C max 70°C
Rated voltage	10-28V AC/DC
Current max.	5~50 mA max.
Power max.	1,5W
Voltage drop max.	5V
LED colour	GREEN
Mounting	Slot screw
Fixing screw torque	With accuracy
Protection class (EN 60529)	IP67
36 500±20 L.	BRN. R. +(+,-)



# Proximity switches **SK** series

PROXIMITY SWITCH FOR CYLINDER WITH T-GROOVES





Product description	Reed 2 wire N/O	Reed 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	2	3
Cable type	CEI 2022 II O.R. grey RAL7035	CEI 2022 II O.R. grey RAL7036
Order no.	SKR2C01200	SKR3C01200
Other standard types cable length 5m	SKR2C01500	SKR3C01500
M8	SKR2P01M8 (rated voltage only 5-50V)	SKR3P01M8
Temperature range	min -5°C max 70°C	min -5°C max 70°C
Rated voltage	5-130V AC/DC	5-30 V AC/DC
Current max.	200 mA	500 mA
Power max.	10 W	6 W
Voltage drop max.	3V	0,1V
LED colour	YELLOW	YELLOW
Mounting	hexagonal headless M3 screw	hexagonal headless M3 screw
Fixing screw torque	max. 0,15 N/m	max. 0,15 N/m
Protection class (EN 60529)	IP67	IP67
M3x5	BRN POWER BLU	BRN + BLK POWER BLU RL
34 L	BRN POWER BLU RL POWER	BRN BLK RL POWER BLU
Product description	PNP 3 wire N/O	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	CEI 2022 II O.R. grey RAL7035	PUR BLACK Ø 2,5mm
Order no.	SKH2C01200	SKH4C01200
Other standard types cable length 5m	SKH2C01500	SKH4C01500
M8	SKH2P01M8	SNH4PUIIVI8
	<b>SKH2P01M8</b> min -5°C max 70°C	SKH4P01M8 min -5°C max 70°C
Temperature range	min -5°C max 70°C	min -5°C max 70°C

	<b>*</b>	<b>▼</b>
Product description	PNP 3 wire N/0	NPN 3 wire N/O
Housing material	PA Black	PA Black
Number of contacts	3	3
Cable type	CEI 2022 II O.R. grey RAL7035	PUR BLACK Ø 2,5mm
Order no.	SKH2C01200	SKH4C01200
Other standard types cable length 5m	SKH2C01500	SKH4C01500
M8	SKH2P01M8	SKH4P01M8
Temperature range	min -5°C max 70°C	min -5°C max 70°C
Rated voltage	30 V DC	10-30V DC
Current max.	200mA max.	200mA max.
Power max.	4W	6W
Voltage drop max.	0,7 V	1,5V
LED colour	YELLOW	YELLOW
Mounting	hexagonal headless M3 screw	hexagonal headless M3 screw
Fixing screw torque	max. 0,15 N/m	max. 0,15 N/m
Protection class (EN 60529)	IP67	IP67
Notes		



FASTENING SYSTEMS INDEX	P/	AG
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## Fastening systems for **SK** series

LOCKING BANDS

Sensor series	SK	SK
Description	Locking bands SK for aluminium	Locking bands SK for inox micro
	micro cylinders	cylinders
	ISO 6432 with M3 stainless steel	ISO 6432 with M3 stainless steel
	nut and stainless steel	nut and stainless steel
	hexagonal screw	hexagonal screw
Housing colour	black	black
Order no. (Cylinder bore) bore 8		Order no. <b>SF08</b>
bore 10		Order no. <b>SF10</b>
bore 12		Order no. <b>SF12</b>
bore 16		Order no. SF16
bore 20		Order no. SF20
bore 25		Order no. SF25
suitable for bores 32 to 63		Order no. 3F23
suitable for bores 80 to 100		
Drawing		
	THE A	
		- 1
	, Pb	No.
	13	L3
	- 60	1000
		HOH
	10	10
	13.55	13.53
		1
	35	35
Technical data		
Mounting	Hexagonal M3 stainless steel screw	Hexagonal M3 stainless steel screw
Fixing screw torque	max. 0,5 N/m	max. 0,5 N/m
Dimension	o. no= L1 L2 L3 Rb Ra	o. no= L1 L2 L3 Rb Ra
	SA08= 9 16 14 4,7 8 (mm)	SF08= 9 16 14 4,7 7,5 (mm)
	SA10= 9 16 15,5 5,5 9,5 (mm)	
	SA12= 12 17,5 17 6,7 11,5 (mm)	
	SA16= 13 18,5 20,5 8,7 13,5 (mm)	SF16= 13 18,5 20,5 8,7 12 (mm)
	SA20= 15 10,5 20,5 0,7 15,5 (mm)	
	SA25= 17 23 22,5 13,5 18 (mm)	
Material	3M2U- 11 23 22,0 13,0 18 (MIII)	3123- 11 23 22,3 13,3 10,3 (MIII)
	DAC OF	DAC OF
	PA6 GF	PA6 GF
Housing material		
Housing material  Packaging	100	100 1
Housing material  Packaging  Minimum quantity	100 pieces	100 pieces
Housing material  Packaging  Minimum quantity  Number of boxes suitable: 1 box	all types	all types
Housing material  Packaging  Minimum quantity	all types 1 Kg	all types 1 Kg
Housing material  Packaging  Minimum quantity  Number of boxes suitable: 1 box	all types	all types



# Fastening systems for **SK** series

BRACKETS

S	SK .	SK	SK	SK
	Brackets SK for ISO 15552/VDMA24562	Brackets SK for ISO 15552/VDMA24562	Brackets SK for tie rods	Brackets SK for tie rods
	cylinders	cylinders	CNOMO cylinder	CNOMO cylinders
Ŭ	y maoro	oyiiidoi o	ortomo cymnaci	ortonic dyminatio
1	L screw M4x6 and 1 screw M3x6	1 screw M4x6	1 screw M5x8 and 1 screw M3x6	1 screw M5x8
1	L SCIEW WI4XO dilu I SCIEW WISXO	1 Sciew W4x0	1 Sciew Woxo and 1 Sciew Woxo	1 Sciew MOXO
C	Order no. SCF32		Order no. SCD32	
	51401 1101 <b>CC1 CL</b>	Order no. SCF80	Order no. Cobbi	Order no. SCD80
		Order no. <b>30780</b>		Order no. 3CD80
	C	C	C	C
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	MRN       / /	NORM I I I / /		
			A A	A
			A	A
		A - 1	A	A
		A - 1	A	A
		A - 1	A	A
			A	A
			A	A
			A	A
		A PILOT	A	A
		A	A	A
			A	A
			A	A
			A	A
	Hoversonal MA stainless steel corour	Havadanal M. stainless steel sersey	A	A
H	Hexagonal M4 stainless steel screw	Hexagonal M4 stainless steel screw	Hexagonal M4 stainless steel screw	Hexagonal M4 stainless steel screw
n	max. 0,5 N/m max. 0,5 N/m	max. 0,5 N/m max. 0,5 N/m	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m	max. 0,5 N/m max. 0,5 N/m	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o S	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C GCF32 = 12,1; 10,4; 36 (mm)	max. 0,5 N/m max. 0,5 N/m  o. no = A; B; C  SCF80 = 16,3; 15; 36 (mm)	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)
n o S	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C
n o S	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C GCF32 = 12,1; 10,4; 36 (mm)	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)
n o S	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)
n o o S	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)  aluminium	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium  100 pieces	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)  aluminium  100 pieces	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)  aluminium  100 pieces
n o s	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)  aluminium  LOO pieces all types	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium  100 pieces all types	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)  aluminium  100 pieces all types	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)  aluminium  100 pieces all types
a a 2	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)  sluminium  L00 pieces all types 2 Kg	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium  100 pieces all types 2 Kg	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)  aluminium  100 pieces all types 2 Kg	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)  aluminium  100 pieces all types 2 Kg
a a 2	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)  aluminium  LOO pieces all types	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium  100 pieces all types	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)  aluminium  100 pieces all types	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)  aluminium  100 pieces all types
a a 2	max. 0,5 N/m max. 0,5 N/m b. no = A; B; C SCF32 = 12,1; 10,4; 36 (mm)  sluminium  L00 pieces all types 2 Kg	max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCF80 = 16,3; 15; 36 (mm)  aluminium  100 pieces all types 2 Kg	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD32 = 7,9; 22,7; 36 (mm)  aluminium  100 pieces all types 2 Kg	Hexagonal M4 stainless steel screw max. 0,5 N/m max. 0,5 N/m o. no = A; B; C SCD80 = 10,4; 25,2; 36 (mm)  aluminium  100 pieces all types 2 Kg

Sensor series		ST04/ST05	ST04/ST05
Description		Brackets for tie rods CNOMO cylinders	Brackets for ISO 15552 /
			VDMA24562 cylinders
		1 screw M4x10 and 1 screw M2,6	1 screw M4x10 and 1 screw M2,6x6
Housing colour		Silver	Silver
Order no. (Cylinder bore; order no.)		bore 6 ; Order no. <b>STDT6</b>	bore 32/40; Order no. STDM32
		bore 8 ; Order no. STDT8	bore 50/63; Order no. STDM50
		bore 10 ; Order no. STDT10	bore 80 ; Order no. STDM80
		bore 12 ; Order no. STDT12	bore 100 ; Order no. STDM100
		bore 14 ; Order no. STDT14	bore 125 ; Order no. STDM125
		bore 16 ; Order no. STDT16	bore 150 ; Order no. <b>STDM163</b>
Drawing			
		В .	
		<del>                                   </del>	
		LABEL	
		M2.6	
		M2.6 C M4'10L	
		D.	
		<del>- B -</del>	
		D LABEL	A
		M2.6 C M4*10L	
Fechnical data		He at a IMO O Table	He at 1MO C 1 d d
Mounting		Hexagonal M2,6 stainless steel screw	Hexagonal M2,6 stainless steel screw
Fixing screw torque		max. 0,5 N/m	max 0,15 N/m
Dimension		o. no = A; B; C; D	o. no = A; B
		STDT6 =19,1; 31,3; 7,3; 12 (mm)	STDM32 = 11,5; 10,4 (mm)
		CTDTO 40 / 20 F 0 F 40 /	CTDMEO 4440-40 F /
		STDT8 = 18,4; 33,5; 9,5; 12 (mm)	STDM50 = 14,10; 13,5 (mm)
		STDT10 = 16,7; 35,7; 11,2; 12 (mm)	STDM80 = 15,54; 15 (mm)
		STDT10 =16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm)	STDM80 = 15,54; 15 (mm) STDM100 = 16,3; 16 (mm)
		STDT10 = 16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm) STDT14 = 24; 38,0; 13,5; 12 (mm)	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)
		STDT10 =16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm)	STDM80 = 15,54; 15 (mm) STDM100 = 16,3; 16 (mm)
Material		STDT10 = 16,7;       35,7;       11,2;       12 (mm)         STDT12 =       20;       35,5;       11,5;       12 (mm)         STDT14 =       24;       38,0;       13,5;       12 (mm)         STDT16 =       24;       40,0;       15,5;       12 (mm)	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)       STDM150     = 26,5;     25,65 (mm)
Housing material		STDT10 = 16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm) STDT14 = 24; 38,0; 13,5; 12 (mm)	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)
Housing material  Packaging		STDT10 = 16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm) STDT14 = 24; 38,0; 13,5; 12 (mm) STDT16 = 24; 40,0; 15,5; 12 (mm) Aluminium	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)       STDM150     = 26,5;     25,65 (mm)
Housing material  Packaging  Minimum quantity		STDT10 = 16,7; 35,7; 11,2; 12 (mm)  STDT12 = 20; 35,5; 11,5; 12 (mm)  STDT14 = 24; 38,0; 13,5; 12 (mm)  STDT16 = 24; 40,0; 15,5; 12 (mm)  Aluminium	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)       STDM150     = 26,5;     25,65 (mm)       aluminium       100 pieces
Housing material  Packaging	1 box	STDT10 = 16,7; 35,7; 11,2; 12 (mm) STDT12 = 20; 35,5; 11,5; 12 (mm) STDT14 = 24; 38,0; 13,5; 12 (mm) STDT16 = 24; 40,0; 15,5; 12 (mm) Aluminium	STDM80     = 15,54;     15 (mm)       STDM100     = 16,3;     16 (mm)       STDM125     = 19,8;     18,7 (mm)       STDM150     = 26,5;     25,65 (mm)



# Fastening systems for **ST04/ST10** series

LOCKING BANDS

ST04	ST10	
Locking bands for round cylinder	Locking bands for round cylinder	
Order no. for Ø 6 to Ø 125 cylinder: <b>STBU125</b>	diam 6 mm Order no. <b>STES06</b> Stainless Steel	
Order no. for Ø 6 to Ø 250 cylinder: <b>STBU250</b>	diam 8 mm Order no. STES08 Stainless Steel	
, , , , , , , , , , , , , , , , , , , ,	diam 10 mm Order no. STES10 Stainless Steel	
	diam 12 mm Order no. STES12 Stainless Steel	
	diam 16 mm Order no. STES16 Stainless Steel	
	diam 20 mm Order no. STES20 Stainless Steel STEA20 A	Aluminium
	diam 25 mm Order no. STES25 Stainless Steel STEA25 A	
	diam 30 mm Order no. STEA30 A	
	diam 32 mm Order no. STES32 Stainless Steel STEA32 A	
	diam 40 mm Order no. STES40 Stainless Steel STEA40 A	
	diam 50 mm Order no. STEA50 A	
	diam 63 mm Order no. STEA63 A	
	diam 80 mm Order no. STEA80 A	
	GIGHT OF THIS OTHER THE STEADY	uannium
10,5 steadying	MODEL  O BS- S20  L ±0.3	31 <sup>1+0.2</sup> -0.05
Hexagonal M4 stainless steel screw		
Hexagonal M4 stainless steel screw max. 0,5 N/m		
Hexagonal M4 stainless steel screw max. 0,5 N/m		
max. 0,5 N/m		
Max. 0,5 N/m  AISI 316		
Max. 0,5 N/m  AISI 316  100 pieces		
Max. 0,5 N/m  AISI 316		



# Fastening systems for **ST06/ST11/ST12/ST15** series

BRACKETS

Sensor series		ST6/ST11/ST12/ST15	ST6/ST11/ST12/ST15
Description		Brackets for tie rods CNOMO cylinders	Brackets for ISO 15552 /
p - <del></del> -		,	VDMA24562 cylinders
		1 screw M4x10	1 screw M4x10
Housing colour		Silver	Silver
Order no. (Cylinder bore ; Order no.)		bore 6 ; Order no. <b>STCT06</b>	bore 32/40 ; Order no. <b>STCM32</b>
		bore 8 ; Order no. STCT08	bore 50/63 ; Order no. STCM50
		bore 14 ; Order no. STCT14	bore 80 ; Order no. <b>STCM80</b>
		bore 20 ; Order no. STCT20	bore 100 ; Order no. <b>STCM100</b>
			bore 125 ; Order no. STCM125
<u></u>			
Drawing			
			C
		C	
		. В	
		<u> </u>	
			0100
		4 1	
		4 <b>1 1 1 1 1 1 1 1 1 1</b>	
		A A A	A
		A A	A A
		¥ MM	A
Technical data		A	
Mounting		Hexagonal M4 stainless steel screw	Hexagonal M4 stainless steel screw
Mounting		A	max. 0,5 N/m
Mounting Fixing screw torque		Hexagonal M4 stainless steel screw max. 0,5 N/m o. no = A; B; C	max. 0,5 N/m o. no = A; B; C
Mounting Fixing screw torque		Hexagonal M4 stainless steel screw max. 0,5 N/m o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm)	max. 0,5 N/m o. no = A; B; C STCM32 = 12,1; 10,4; 25 (mm)
Mounting Fixing screw torque		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm)	max. 0,5 N/m  o. no = A; B; C  STCM32 = 12,1; 10,4; 25 (mm)  STCM50 = 15,9; 13,5; 25 (mm)
Mounting Fixing screw torque		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm)	max. 0,5 N/m       o. no     =     A;     B;     C       STCM32     =     12,1;     10,4;     25 (mm)       STCM50     =     15,9;     13,5;     25 (mm)       STCM80     =     16,3;     15;     25 (mm)
Mounting Fixing screw torque		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm)	max. 0,5 N/m       o. no     =     A;     B;     C       STCM32     =     12,1;     10,4;     25 (mm)       STCM50     =     15,9;     13,5;     25 (mm)       STCM80     =     16,3;     15;     25 (mm)       STCM100     =     17,9;     16;     25 (mm)
Mounting Fixing screw torque Dimension		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm)	max. 0,5 N/m       o. no     =     A;     B;     C       STCM32     =     12,1;     10,4;     25 (mm)       STCM50     =     15,9;     13,5;     25 (mm)       STCM80     =     16,3;     15;     25 (mm)
Mounting Fixing screw torque Dimension  Material		Hexagonal M4 stainless steel screw max. 0,5 N/m o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm) STCT20 = 20,6; 35,4; 25 (mm)	max. 0,5 N/m         o. no       =       A;       B;       C         STCM32       =       12,1;       10,4;       25 (mm)         STCM50       =       15,9;       13,5;       25 (mm)         STCM80       =       16,3;       15;       25 (mm)         STCM100       =       17,9;       16;       25 (mm)         STCM125       =       19,7;       18,7;       25 (mm)
Mounting Fixing screw torque Dimension  Material Housing material		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm)	max. 0,5 N/m       o. no     =     A;     B;     C       STCM32     =     12,1;     10,4;     25 (mm)       STCM50     =     15,9;     13,5;     25 (mm)       STCM80     =     16,3;     15;     25 (mm)       STCM100     =     17,9;     16;     25 (mm)
Mounting Fixing screw torque Dimension  Material Housing material Packaging		Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm) STCT20 = 20,6; 35,4; 25 (mm)  Aluminium	max. 0,5 N/m         o. no       =       A;       B;       C         STCM32       =       12,1;       10,4;       25 (mm)         STCM50       =       15,9;       13,5;       25 (mm)         STCM80       =       16,3;       15;       25 (mm)         STCM100       =       17,9;       16;       25 (mm)         STCM125       =       19,7;       18,7;       25 (mm)
Mounting Fixing screw torque Dimension  Material Housing material Packaging Minimum quantity		Hexagonal M4 stainless steel screw max. 0,5 N/m o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm) STCT20 = 20,6; 35,4; 25 (mm)  Aluminium	max. 0,5 N/m         o. no       =       A;       B;       C         STCM32       =       12,1;       10,4;       25 (mm)         STCM50       =       15,9;       13,5;       25 (mm)         STCM80       =       16,3;       15;       25 (mm)         STCM100       =       17,9;       16;       25 (mm)         STCM125       =       19,7;       18,7;       25 (mm)         Aluminium
Technical data Mounting Fixing screw torque Dimension  Material Housing material Packaging Minimum quantity Number of boxes suitable	1 box	Hexagonal M4 stainless steel screw max. 0,5 N/m  o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm) STCT20 = 20,6; 35,4; 25 (mm)  Aluminium  100 pieces all types	max. 0,5 N/m         o. no       =       A;       B;       C         STCM32       =       12,1;       10,4;       25 (mm)         STCM50       =       15,9;       13,5;       25 (mm)         STCM80       =       16,3;       15;       25 (mm)         STCM100       =       17,9;       16;       25 (mm)         STCM125       =       19,7;       18,7;       25 (mm)         Aluminium         100 pieces         all types
Mounting Fixing screw torque Dimension  Material Housing material Packaging Minimum quantity	1 box	Hexagonal M4 stainless steel screw max. 0,5 N/m o. no = A; B; C STCT06 = 7,9; 22,7; 25 (mm) STCT08 = 10,4; 25,2; 25 (mm) STCT14 = 15,1; 30; 25 (mm) STCT20 = 20,6; 35,4; 25 (mm)  Aluminium	max. 0,5 N/m         o. no       =       A;       B;       C         STCM32       =       12,1;       10,4;       25 (mm)         STCM50       =       15,9;       13,5;       25 (mm)         STCM80       =       16,3;       15;       25 (mm)         STCM100       =       17,9;       16;       25 (mm)         STCM125       =       19,7;       18,7;       25 (mm)         Aluminium



# Fastening systems for **ST11** series

LOCKING BANDS

ST11	ST11			
Locking bands for round cylinder				
Black				
suitable for bores 32 to 63; Order no. SCM32	diam 9,3 mm	Order no. STA1	diam 26,3 mm	Order no. STA13
	diam 11,3 mm	Order no. STA2	diam 27 mm	Order no. <b>STA14</b>
	diam 12 mm	Order no. STA3	diam 29 mm	Order no. STA15
	diam 13,3 mm	Order no. STA4	diam 30 mm	Order no. STA16
	diam 14 mm	Order no. STA5	diam 33,6 mm	Order no. <b>STA17</b>
	diam 16 mm	Order no. STA6	diam 36 mm	Order no. STA18
	diam 17,3 mm	Order no. STA7	diam 41,6 mm	Order no. STA19
	diam 18 mm	Order no. STA8	diam 45 mm	Order no. STA20
	diam 20 mm	Order no. STA9	diam 52,4 mm	Order no. STA21
	diam 21,3 mm	Order no. STA10	diam 55 mm	Order no. STA22
	diam 22 mm	Order no. STA11	diam 65,4 mm	Order no. STA23
	diam 24 mm	Order no. STA12	diam 68 mm	Order no. STA24
<b>∫</b>				
(0)				
M3 screw				
M3 screw  PA6 GF				
PA6 GF				
PA6 GF				
PA6 GF 100 pieces				
PA6 GF  100 pieces all types				
PA6 GF 100 pieces				





PRESSURE SWITCHES	PAG
PRESSURE SWITCHES	application
PRESSURE SWITCHES	caution
GPB1 series	compact pressure switch with plug-in or thread-in fitting for non-corrosive and non flammable gas
GPB2 series	with hysteresis adjustable, for non-corrosive and non flammable gas40
GPB3 series	with hysteresis adjustable, IP40 for air, non corrosive and non flammable gas42
GPB4 series	with hysteresis adjustable, IP65 for air, non corrosive and non flammable gas44
GPB5 series	with hysteresis adjustable, IP40 for air, non corrosive and non flammable gas46
GPM6/7 series	pressure gage, IP65 for filtered air, non corrosive and non flammable gas46



### **Pressure switches**

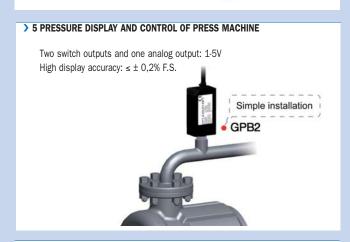
APPLICATION

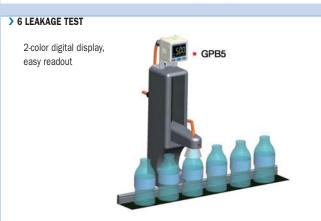
# > 1 DETECTION OF LINE PRESSURE Compact size GPB1 Simple installation GPB2



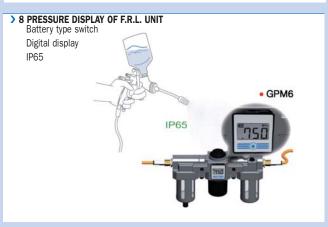
# > 3 PRESSURE DISPLAY AND CONTROL OF PNEUMATIC EQUIPMENT Two switch outputs and one analog output: 1-5V Hysteresis adjustable GPB4









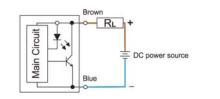




### **Pressure switches**

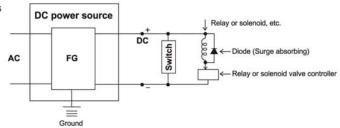
APPLICATION AND CAUTION

- ▶ 1 When using a 2-wire type pressure switch (KP-101/102), please make sure it is connected to a proper resistance load. Otherwise excessive current will damage the switch permanently.
- > 2 When using a 2-wire type pressure switch (KP-101/102), only connect it to a DC power source, and aware of proper connection.

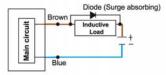


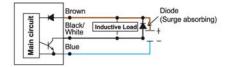
**3** To improve stability of the pressure switch and the whole circuit in general it is recommended to properly ground the DC power source.

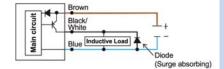
If the same power source for the pressure switch is used with other inductive loads (such as relay or solenoid), attach a circuit protection diode or surge suppressor to prevent damages to the pressure switch.



> 4 When using with inductive load (such as relay or solenoid), please install a protection circuit parallel to the load to prolong the service life of pressure switch. If using with DC inductive load, install a diode across the load to remove surge, but polarity must be observed or damages to pressure switch may occur.







- > 5 Before installation or removal, please make sure the power is OFF, line pressure has been released, to avoid personnel injuries and damages to the pressure switch or other losses.
- > 6 Please properly ground all noise inducing equipment (such as induction motor), avoid noise affect the pressure switch normal operation.
- > 7 Do not use corrosive gases or liquids as pressure media.



## Pressure switch GPB1 series

COMPACT PRESSURE SWITCH WITH PLUG-IN OR THREAD-IN FITTING, FOR NON-CORROSIVE AND NON-FLAMMABLE GAS

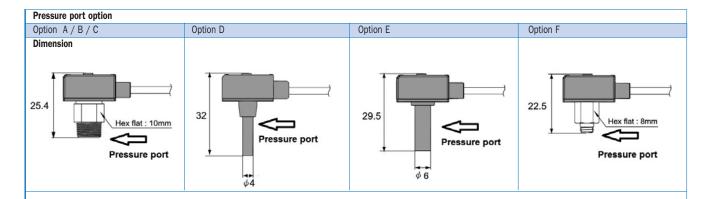


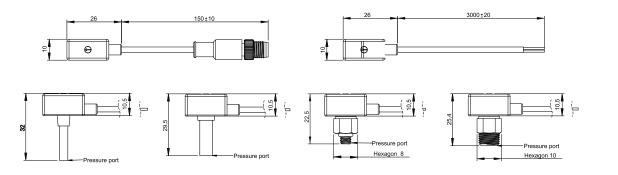
Product description					
Туре	GPB1B5	GPB1D5	GPB1B6	GPB1C6	
Pressure range	0 to -101,3 kPa	0 to 0,6 MPa	0 to -101,3 kPa	0 to 1,0 MPa	
Withstand pressure	0,6 MPa	1,5 MPa	0,2 MPa	1,5 MPa	
Accurancy		tected pressure @ 25°C	,	etected pressure @ 25°C	
Rated voltage	_5% 1.0. 01 do		(±10% ripple voltage)	p. 0000010 C 20 0	
Output type		PNP	(======	Analog	
anches 1ho	· ·				
Current consuption max.	Open collector 2 outputs, max current load: 80 mA $1 \text{ to 5V} \pm 1\% \text{ F.S.}$				
	PNP Output  Brown DC(+)  Black OUT  Blue DC(-)  Analog Output  Brown DC(+)  Blue DC(-)  DC  10.8~30V  Analog Output  Brown DC(+)  Switch main circuit  Brown DC(+)  Switch main DC(+)  Blue DC(-)				
Output short circuit protection Response time Repeatibility	:	yes ,5 ms max ± 1% F.S,		no -	
Hysteresis		6 F.S. max.		-	
Function indicator	Red	LED turns ON		-	
Environmental condition					
Temperature operation range		min. 0°C; max. 50°C	(No condensation or freezing	(s)	
Temperature storage range		min20°C; max	. 60°C (No condensation)		
Ambient humidity range		Operation/St	orage: 35 to 85 % RH		
Vibration	Total amplidude	e 1,5mm, 10Hz-55Hz-10Hz sca		ch direction of X,Y and Z	
Shock			nes each direction of X,Y and		
Protection class (EN 60529)			correctly assembled		
. 10.000.011 0.000 (E17 00020)		ii to mion			
Cable type		nil - racio	stance (0,18mm²)		
Weight			(with 2m lead wire)		
		αρριολί συξ	, Ziii iodd Wiioj		
How to order					
	Type • GPB	1			
	ur D	<del>∸</del> ڶڶڶڶ			
Pressure range					
<b>B</b> (0 to -101,3 kPa)		Pressure port			
<b>C</b> (C* - 0 to 1,0 MPa)	Output	<b>A</b> (1/8 PT - I		n)	
<b>D</b> * (0 to 0,6 MPa)	<b>5</b> (PNP)	<b>B</b> (1/8 PT - I			
	6 (Analog. 1-5V)		<u> </u>		
	/ maiog. I ov	(1/00/10			
		D (Ø 1 mm)			
		<b>D</b> (Ø 4 mm)			
* Pressure range "D" available only with PNP output		<b>D</b> (Ø 4 mm) <b>E</b> (Ø 6 mm) <b>F</b> (M5x0,8)			



### Pressure switch **GPB1** series

COMPACT PRESSURE SWITCH WITH PLUG-IN OR THREAD-IN FITTING, FOR NON-CORROSIVE AND NON-FLAMMABLE GAS





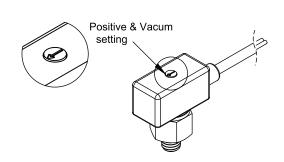
#### How to set pressure

Use the pressure setting trimmer to set "ON" pressure. Totate clockwise to increase pressure set point.

Rotate counter-clockwise to decrease pressure setpoiny.

Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments.

To prevent demage to the pressure setting trimmer, DO NOT force the trimmer when it comes to a stop



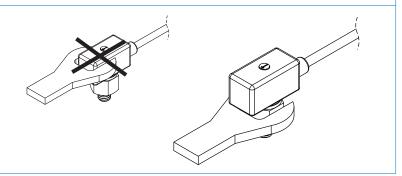
#### Installation precaution

When mounting, always use the wrench on the metallic area near the pressure port.

Never apply a wrench to the plastic body, it will demage the

Over lightening may cause demages the port thread, mounting bracket and pressure sensor. Under ightening may result loosen or leakage.

Apply pressure and power after installation and make necessart adjustments and inspect any possible signs of leakage to ensure proper installation.





# Pressure switch **GPB2** series

WITH HYSTERESIS ADJUSTABLE, FOR NON-CORROSIVE AND NON-FLAMMABLE GAS



Product description				
Туре	GPB2A5	GPB2B5	GPB2C5	
Pressure range	-100,0 to +100,0 kPa	0,0 to -101,3 kPa	0,000 to 1,000 MPa	
Withstand pressure	300 kPa	300 kPa	1,5 MPa	
Accurancy		±1% F.S. of detected pressure @	25°C ± 3°C	
Rated voltage		12 to 24 V DC (±10% ripple	voltage)	
Output type				
PNP		Open collector 1 outputs, max curre	nt load: 80 mA	
Current consuption max.	21 mA max.			
Withstand voltage	1000V AC in 1 min. (at 500V DC, between case and lead cable)			
nsulation resistance		50Mohm min. (at 500V DC, between ca		
	m	Red vitch hain rouit Black R	DC 12-24V	
Output short circuit protection		yes 5 ma may		
Response time		5 ms max ± 1% F.S.		
Repeatibility Hysteresis		± 1% F.S.  1 to 10 % of setting pressure (a	adjustable)	
nysteresis Function indicator		red LED turns on	aujustable)	
		rea LED turris on		
Environmental condition		min 000 1 may 5000 /N= == 1	stion or frequing)	
Temperature operation range		min. 0°C; max. 50°C (No condensa	<u> </u>	
Temperature storage range		min20°C; max. 60°C (No con	· ·	
Ambient humidity range	Total amorbidists 4 5	Operation/Storage: 35 to 85		
Vibration	iotal ampliqude 1,5	5mm, 10Hz-55Hz-10Hz scan for 1 minute		
Shock		980m/s² (100G), 3 times each direct		
Protection class (EN 60529)		IP40 when correctly assen		
		oil - resistance (0,18mr	11-1)	
		approx. 60g		
Cable type Weight				



### Pressure switch GPB2 series

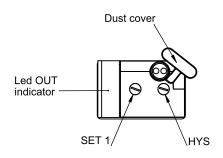
WITH HYSTERESIS ADJUSTABLE, IP65 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS

# Dimension / connection 300 ± 20 2000 ± 20 M5 Pressure port

#### How to set pressure:

Remove dust cover to make any adjustments. Replace dust cover when finished to preventforeign object from entering. Pressure setting trimmer (SET) is for setting the output (ON) pressure. Rotate SET trimmer counter-clockwise to increase (Pressure or Vacuum) the ON point. Rotate clockwise will decrease the setting pressure.

Hysteresis setting trimmer (HYS) is for changing the hysteresis. Rotate trimmer counter-clockwise to increase the range 1 - 1 Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. Do not force the trimmer when it comes to a stop to prevent demage to the setting trimmer



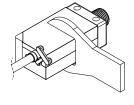
#### Installation precautions

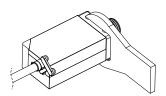
When mounting, always use the wrech on the metallic area near the pressure port. Never apply a wrench to the plastic body, it will demage the sensor.

Over tightening may cause demages to the port thread, mounting bracket and pressure sensor.

Under tightening may result loosen or leakage.

Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.







# Pressure switch **GPB3** series

WITH HYSTERESIS ADJUSTABLE, IP40 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS

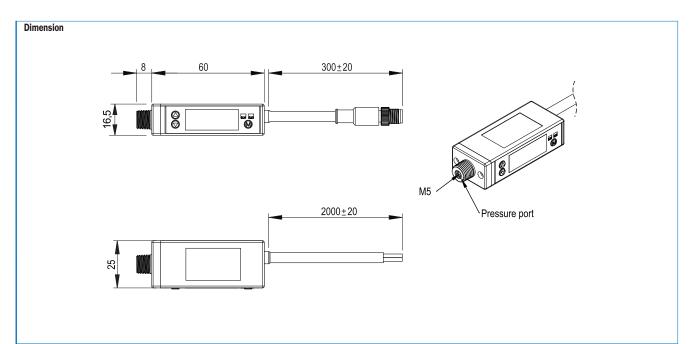


Product description	CDD2A	CDR2D	ODD20
Туре	GPB3A	GPB3B	GPB3C
Pressure range	-100,0 to +100,0 kPa	0,0 to -101,3 kPa	0,000 to 1,000 MPa
Withstand pressure	300 kPa	300 kPa	1,5 MPa
Set pressure resolution			
kPa	0,1	0,1	-
MPa	-	-	0,001
kgf/cm2	0,001	0,001	0,01
bar	0,001	0,001	0,01
psi	0,01	0,01	0,1
inHg	0,1	0,1	-
mmHg	1	1	-
mmH20	0,1	0,1	-
Accurancy	±29	F.S. ±1 digit of detected pressur	e @ 25°C ± 3°C
Rated voltage		12 to 24 V DC (±10% ripple	
Output type		, FF :	<del>- /</del>
PNP	Or	en collector 2 outputs, max curre	nt load: 80 mA
Analog		1 to 5V ± 2,5% F.S.	
Current consuption max.	1 to 5V ± 5% F.S.		60 mA
	PNP Output & Analog Output	PNP	Output
	Analog Output (Orange)  OUT1 (Black)  OUT2 (White	ILL DO	OUT1(Black) OUT2(White)RL RL DC(-) (Blue)
Output short circuit protection		yes	
Response time	2.5 m	s max (anti-chattering selection:24	lms, 192 and 768)
Repeatibility		± 0,2% F.S. ± 1 digit	
Hysteresis			
Hysteresis mode		Adjustable	
Window comparator mode		Fixed ( 3 digit)	
Function indicator		OUT1 = Green ; OUT2 = I	Red
Environmental condition		,	
Temperature operation range	mir	. 0°C ; max. 50°C (No condensa	ition or freezing)
Temperature storage range		min20°C; max. 60°C (No con-	
Ambient humidity range		Operation/Storage: 35 to 85	*
Vibration	Total amplidude 1 5mm 1		, two hours each direction of X,Y and Z
Shock		$Dm/s^2(100G)$ , 3 times each direction	
Protection class (EN 60529)	900	IP40	1011 01 741 WHO Z
Cable type		oil - resistance (0,15mm	n <sup>2</sup> )
Weight	annroy 67	g (with 2m lead wire), Approx. 35g	
How to order	арріох. От	6 (mai ziii load wile), Appiox. 308	5 (Mai maic connector)
Pressure range  A (-100,0 to +100,0 kPa)  B (0,0 to -101,3 kPa)	Type • GPB3	Pressure port (thread)  A (1/8 PT - M5	Connection CO2 (2 m)
<b>C</b> (0,000 to 1,000 MPa)	1 (2 x PNP + 1x 1-5V) 2 (2 x PNP)	B (1/8NPT - 10-32UNF) C (1/8GAS - M5)	M08*(M8 connector)
* option "M08" available only with output option "2"  ** option "M12" available on request			

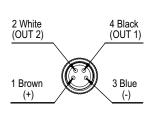


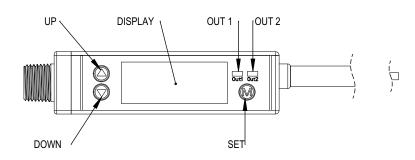
## Pressure switch GPB3 series

WITH HYSTERESIS ADJUSTABLE, IP40 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS



#### Panel instruction





Button UP	Use this button to change setting mode and pre-set final desired value
Button SET	Change setting mode and pre-set final desired value
Button DOWN	Use this button to change setting mode and pre-set final desired value
Switch 0UT1	Green LED
Switch OUT2	Red LED
Display	Pressure value display



# Pressure switch **GPB4** series

WITH HYSTERESIS ADJUSTABLE, IP65 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS

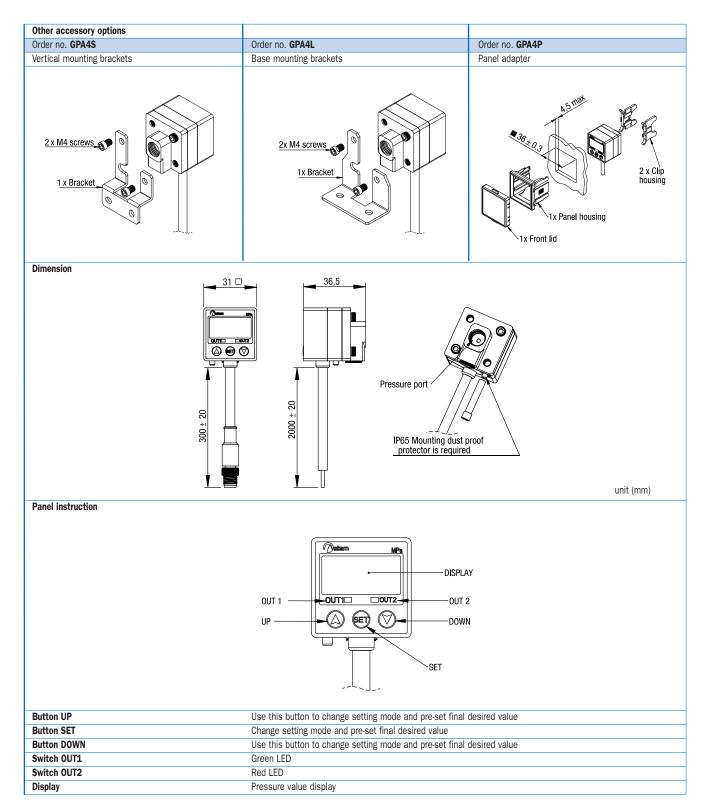


Product description	00044	00040	00040
Type	GPB4A	GPB4B	GPB4C
Pressure range	-100,0 to +100,0 kPa	0,0 to -101,3 kPa	0,000 to 1,000 MPa
Withstand pressure	300 kPa	300 kPa	1,5 MPa
Set pressure resolution			
kPa	,	0,1	-
MPa		-	0,001
kgf/cm2		0,001	0,01
bar	,	0,001	0,01
psi	0,01	0,01	0,1
inHg	0,1	0,1	
mmHg	1	1	
mmH20	0,1	0,1	
Accurancy		±2% F.S. ±1 digit of detected press	sure @ 25°C ± 3°C
Fluid		Air, Non-corrosive/Non-flam	mable gas
Rated voltage		12 to 24 V DC (±10% ripp	
Output type		2 / 2 / F. P.	
PNP		Open collector 2 outputs, max cur	rent load: 80 mA
Analog		1 to 5V ± 2,5% F.S	
Current consuption max.	1 to 5V ± 5% F.S.	1 10 00 ± 2,0%1.0	5. 55 mA
ouriont oursuption max.	I to 01 I 0/01.0.		OU IIIA
	9 9 9 9	e)(Brown)	DC(+) (Brown)
	wite Outs	Output ange) I(Black) RL OC 2 (White) RL 12-24V	OUT1 (Black) OUT2 (White) RL RL DC 12-24V
	DC(-	)(Blue) yes	OUT2 (White) Rt. DC Rt. 12-24V DC(-) (Blue)
Response time	DC(-	yes 2.5 ms max (anti-chattering selection:	OUT2(White) RL DC 112-24V DC(-) (Blue) 24ms, 192 and 7689
Response time Repeatibility	DC(-	)(Blue) yes	OUT2(White) RL DC 112-24V DC(-) (Blue) 24ms, 192 and 7689
Response time Repeatibility Hysteresis	OUT.	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig	OUT2(White) RL DC 112-24V DC(-) (Blue) 24ms, 192 and 7689
Response time Repeatibility	OUT.	yes 2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable	OUT2(White) RL DC 112-24V DC(-) (Blue) 24ms, 192 and 7689
Response time Repeatibility Hysteresis	OUT.	yes 2.5 ms max (anti-chattering selection: $\pm$ 0,2% F.S. $\pm$ 1 dig Adjustable Fixed ( 3 digit)	OUT2 (White) RL   DC   12-24V   12-24V
Response time Repeatibility Hysteresis Hysteresis mode Window comparator mode	OUT.	yes 2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable	OUT2 (White) RL   DC   12-24V   12-24V
Response time Repeatibility Hysteresis Hysteresis mode Window comparator mode	OUT.	yes 2.5 ms max (anti-chattering selection: $\pm$ 0,2% F.S. $\pm$ 1 dig Adjustable Fixed ( 3 digit)	OUT2 (White) RL   DC   12-24V   12-24V
Response time Repeatibility Hysteresis Hysteresis mode Window comparator mode	OUT.	yes 2.5 ms max (anti-chattering selection: $\pm$ 0,2% F.S. $\pm$ 1 dig  Adjustable  Fixed ( 3 digit)  OUT1 = Green; OUT2 :  min. 0°C; max. 50°C (No conden	OUT2 (White) RL DC (12-24V DC(-) (Blue) DC(-
Response time Repeatibility Hysteresis Hysteresis mode Window comparator mode Function indicator Enviromental condition  Temperature operation range Temperature storage range	OCC-	yes 2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2 :  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No co	outz(White) R. D. C. (Blue)  24ms, 192 and 7689 git  = Red  sation or freezing) ondensation)
Response time Repeatibility Hysteresis Hysteresis mode Window comparator mode Function indicator Enviromental condition Temperature operation range	OCC-	yes 2.5 ms max (anti-chattering selection: $\pm$ 0,2% F.S. $\pm$ 1 dig  Adjustable  Fixed ( 3 digit)  OUT1 = Green; OUT2 :  min. 0°C; max. 50°C (No conden	outz(White) R. D. C. (Blue)  24ms, 192 and 7689 git  = Red  sation or freezing) ondensation)
Response time Repeatibility Hysteresis  Hysteresis mode Window comparator mode Function indicator Enviromental condition  Temperature operation range Temperature storage range	OCC-	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2:  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No cooled of the cooled of th	outz(White) R. D. C. (Blue)  24ms, 192 and 7689 git  = Red  sation or freezing) ondensation)
Response time Repeatibility Hysteresis  Hysteresis mode Window comparator mode Function indicator Enviromental condition  Temperature operation range Temperature storage range Ambient humidity range	Total amplidude 1,5	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2:  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No cooled of the cooled of th	outz(White) R. D. C. (Blue)  24ms, 192 and 7689 git  = Red sation or freezing) ondensation) 85 % RH tte, two hours each direction of X,Y and Z
Response time Repeatibility Hysteresis  Hysteresis mode Window comparator mode Function indicator Enviromental condition  Temperature operation range Temperature storage range Ambient humidity range	Total amplidude 1,5	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2:  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No conden conde	outz(White) Rules   DC(-) (Blue)    24ms, 192 and 7689 git    = Red    sation or freezing)    ondensation)    85 % RH    tte, two hours each direction of X,Y and Z    extion of X,Y and Z
Window comparator mode Function indicator Environmental condition  Temperature operation range Temperature storage range Ambient humidity range Vibration Shock	Total amplidude 1,5	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2:  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No conden min20°C; max. 60°C)  Simple Supplies of the s	outz(White) Rules   DC(-) (Blue)    24ms, 192 and 7689 git    = Red    sation or freezing)    ondensation)    85 % RH    tet, two hours each direction of X,Y and Z    embled
Response time Repeatibility Hysteresis  Hysteresis mode Window comparator mode Function indicator Enviromental condition  Temperature operation range Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)	Total amplidude 1,5	yes  2.5 ms max (anti-chattering selection: ± 0,2% F.S. ± 1 dig  Adjustable Fixed ( 3 digit)  OUT1 = Green; OUT2:  min. 0°C; max. 50°C (No conden min20°C; max. 60°C (No conden conde	outz(White) Rules   DC(-) (Blue)    24ms, 192 and 7689 git    = Red    sation or freezing)    ondensation)    85 % RH    tte, two hours each direction of X,Y and Z    embled    mm²)



## Pressure switch GPB4 series

WITH HYSTERESIS ADJUSTABLE, IP65 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS





# Pressure switch **GPB5** series

WITH HYSTERESIS ADJUSTABLE, IP40 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS

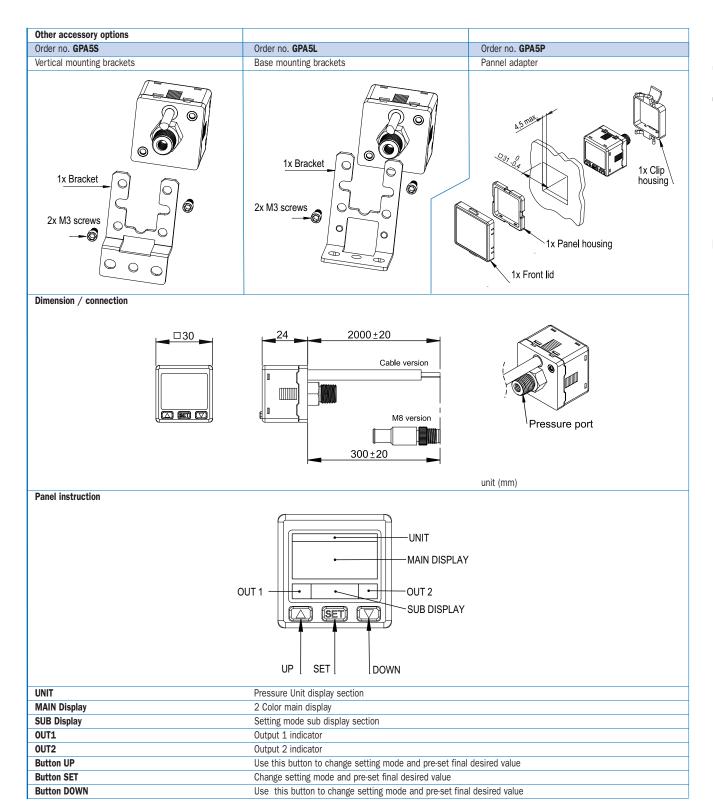


Product description			
Туре	GPB5A	GPB5B	GPB5C
Pressure range	-100,0 to +100,0 kPa	0,0 to -101,3 kPa	0,000 to 1,000 MPa
Withstand pressure	300 kPa	300 kPa	1,5 MPa
Set pressure resolution	000 1.11 0.	000 111 0	2,0 0
kPa	0,1	0,1	_
MPa	-	-	0,001
kgf/cm2	0,001	0,001	0,01
bar	0,001	0,001	0,01
psi	0.01	0,01	0,1
inHg	0,1	0,1	-
mmHg	1	1	
Accurancy	_	±2% F.S. ±1 digit of detected press	ure @ 25°C + 3°C
Rated voltage		12 to 24 V DC (±10% ripp	
Output type			10.10.10.10
PNP		Open collector 2 outputs, max curr	ent load: 125 mA
Analog (voltage output)		1 to 5V ± 2,5% F.S	
Analog (voltage output)  Analog (current output)		4 to 20mA ± 2.5% F	
Current consuption max.		40 mA	
	PNP + Analog (Voltage) Output (1		+20 mA) PNP Output
	DC(+) (Brown)	DC (+)(Bruxn) Out (Black) Analog output  (White) (BL) DC (-)(Bluxn)  DC (-)(Bluxn)	CC(+)(Bruen)   CC(+
Output short circuit protection		yes	
Response time	2.5 ms max (ant	i-chattering selection: 25ms, 100ms,	250ms, 500ms, 1000ms, 1500ms)
Repeatibility	`	± 0,2% F.S. ± 1 dig	
Hysteresis		· · · · · · · · · · · · · · · · · · ·	•
One point set mode			
Hysteresis mode	-	Adjustable	
Window comparator mode	1	•	
Function indicator		OUT1 = Green; OUT2	= Red
Environmental condition		•	
Temperature operation range		min. 0°C; max. 50°C (No conden	sation or freezing)
Temperature operation range Temperature storage range		min. 0°C; max. 50°C (No conden min10°C; max. 60°C (No co	
			ondensation)
Temperature storage range	Total amplidude 1,5r	min10°C; max. 60°C (No concept of the concept of	ondensation)
Temperature storage range Ambient humidity range	Total amplidude 1,5r	min10°C; max. 60°C (No concept of the concept of	ondensation) 85 % RH te, two hours each direction of X,Y and Z
Temperature storage range Ambient humidity range Vibration	Total amplidude 1,5r	min10°C ; max. 60°C (No co Operation/Storage: 35 to nm, 10Hz-55Hz-10Hz scan for 1 minu	ondensation) 85 % RH te, two hours each direction of X,Y and Z ction of X,Y and Z
Temperature storage range Ambient humidity range Vibration Shock	Total amplidude 1,5r	min10°C; max. 60°C (No co Operation/Storage: 35 to mm, 10Hz-55Hz-10Hz scan for 1 minu 100m/s²(10G), 3 times each direct IP40 when correctly ass	ondensation) 85 % RH te, two hours each direction of X,Y and Z vition of X,Y and Z embled
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type		min10°C; max. 60°C (No co Operation/Storage: 35 to mm, 10Hz-55Hz-10Hz scan for 1 minu 100m/s²(10G), 3 times each direct IP40 when correctly ass oil - resistance (0,15r	ondensation) 85 % RH te, two hours each direction of X,Y and Z etion of X,Y and Z embled nm²)
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type Weightapprox. How to order		min10°C; max. 60°C (No co Operation/Storage: 35 to mm, 10Hz-55Hz-10Hz scan for 1 minu 100m/s²(10G), 3 times each direct IP40 when correctly ass	ondensation) 85 % RH te, two hours each direction of X,Y and Z ettion of X,Y and Z embled nm²)
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type Weightapprox. How to order  Pressure range	1	min10°C; max. 60°C (No concept of the concept of	ondensation) 85 % RH te, two hours each direction of X,Y and Z tition of X,Y and Z embled nm²) (with male connector)
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type Weightapprox. How to order  Pressure range A (-100,0 to +100,0 kPa)	Type • GPB5	min10°C; max. 60°C (No concept of the concept of	ondensation) 85 % RH te, two hours each direction of X,Y and Z tition of X,Y and Z embled nm²) (with male connector)  Connection
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type Weightapprox. How to order  Pressure range A (-100,0 to +100,0 kPa) B (0,0 to -101,3 kPa)	Type • GPB5 Output	min10°C; max. 60°C (No concept of the content of	condensation) 85 % RH te, two hours each direction of X,Y and Z embled nm²) (with male connector)  Connection CO2 (2 m)
Temperature storage range Ambient humidity range Vibration Shock Protection class (EN 60529)  Cable type Weightapprox. How to order  Pressure range A (-100,0 to +100,0 kPa)	Type • GPB5	min10°C; max. 60°C (No concept of the content of	ondensation) 85 % RH te, two hours each direction of X,Y and Z tition of X,Y and Z embled nm²) (with male connector)  Connection



### Pressure switch **GPB5** series

WITH HYSTERESIS ADJUSTABLE, IP40 FOR AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS





# Pressure switch **GPM6/7** series

PRESSURE GAGE, IP65 FOR FILTERED AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS



Product description				17.032005
Type	GPM6B0	GPM6E0	GPM7B0	GPM7E0
Pressure range	0,0 to -101 kPa	0,000 to + 1,0 MPa	0,0 to -101 kPa	- 0,000 to 1,000 MPa
Withstand pressure	300 kPa	1,5 MPa	300kPa	1,5 MPa
Set pressure resolution	000 111 0	2,0 1111 0	Octiva	2,0 1111 0
kPa	1	_	1	-
MPa	_	0,001	_	0,001
kgf/cm2	_	0,001	0.01	0,01
bar	0,01	0,01	0,01	0.01
psi	0,1	0,01	0,1	0,1
inHg	-	-	-	-
mmHg	_	_	_	_
Indicator Accurancy			etected pressure @ 25°C ± 3	
Rated voltage	Ry hattery (CR2032 lithium	1 year, 5 times/day) replaceable	12 to 24 V D	
Back light	by battery (on2002 intiluin,	yes	12 (0 24 V D	- (±10% Tippic Voltage)
Turn-on interval	Dienlay tu	rn off after 60 sec.		_
Pressure unit	psi, bar, mmHg, kPa user sel.	psi, bar, kgf/cm2, MPa user sel.	psi, bar, kgf/cm2, kPa user sel.	psi, bar, kgf/cm2, MPa user s
Sampling rate	por, var, mining, Kra user Sel.		(2 times/sec)	poi, vai, ngi/ciliz, ivira user s
Current consuption max.		2 112	, ,	10mA
Repeatibility Hysteresis One point set mode Hysteresis mode	± 1% F.S. ± 1 digit	± 0,2% F.S. ± 1 digit	Pressure display only.  ± 1% F.S. ± 1 digit	DC(-) (Blue) , no switch output function. $\pm 0,2\% \text{ F.S.} \pm 1 \text{ digit}$
Window comparator mode		2.4 /0 digit LOD	dianlas 7 aggment	
LCD Display		3 1/2 digit LCD	display, 7 segment	
Environmental condition		min 000 . may 5000 /A	lo condendation or fraction	
Temperature operation range		<del>-</del>	lo condensation or freezing) 0°C (No condensation)	
Temperature storage range				
Ambient humidity range Vibration	Total amplidude 1	5mm, 10Hz-55Hz-10Hz scan f	ge: 35 to 85 % RH	direction of V V and 7
Vibration	rotal ampliquue 1			uncouon or A,1 dilu Z
Protection class (EN 60529)			each direction of X,Y and Z rectly assembled	
,			rectly assembled nce (0,15mm²)	
Cable type Weight	appro	on - resistar ox. 40g	approx. 60g	(with 2m lead wire), with male connector)
Type   Pressure range   B (0,0 to -101 kPa)   E (0,000 to + 1,000 MPa)		Pressure port (1  A (1/8 PT - M8  B (1/8NPT - 10  C (1/8GAS - M	Connection 5) 000 (no c 0-32UNF) C02* (2mt)	nonnection)
			* option av	vailable only for GPM7



# Pressure switch **GPM6/7** series

PRESSURE GAGE, IP65 FOR FILTERED AIR, NON-CORROSIVE AND NON-FLAMMABLE GAS

