### Switches for pressure gauges



#### **APPLICATION**

A pressure gauge with one or two contacts is an easy solution to have at the same time a permanent reading of process pressure with a survey of limit pressure over ranges. The pressure indication is done on a 100 mm or a 160 mm dial pressure gauge *(up to 4 contacts)*. The contact is actuated as the pressure index come over.

#### **FAST RESPONSE SWITCHES**

The contact is actuated instantaneously; the hysteresis is short, about 0.5%. They may not be use when there are vibrations on the process or with aggressive ambient conditions. They must be used in a dry (not filled) pressure gauge case.

#### **Technical features**

Nominal voltage: 250 V, as a maximum Release or priming current: 0.7 A as a maximum Load current: 0.36 A as a maximum Switching power: 10 W as a maximum Contacts: Ag 80 / Ni 20 Accuracy: 0.5% F.S.

#### **MAGNET SWITCHES**

They are suitable for most of applications, even with weak vibrations. The switch actuates with the help of a spring for a quick release. They must be used in a dry (not filled) pressure gauge case.

#### **Technical features**

Nominal voltage: 250 V, as a maximum Release or priming current: 1.0 A as a maximum Load current: 0.6 A as a maximum Switching power: 30 W as a maximum Contacts: Ag 80 / Ni 20 from 2 to 5% F.S.

#### **INDUCTIVE SWITCHES**

These switches do not have electrical contact, as per standard DIN 19234. They have a greater life than the magnet switches and a better accuracy. They can be used with silicone filled cases. The output signal reflects the location of the pressure index inside the magnetic field of the switch.

#### **Technical features**

Load voltage: 8 V DC (Ri =1 kOhm) as a maximum

Nominal voltage: 5 to 25 V

Consumption: > 3 mA (open circuit output) < 1 mA (closed circuit output)

Accuracy: 0.5% F.S.

With a relay RDN 11, connected, the intrinsic safety protection could apply for 1 & 2 zones on EEx ib II C T6, please request more information to us.

#### **CODE NUMBERS FOR ORDERING**

First, please ask for a quotation with the following details:

- Fluid, pressure range, temperature, and accuracy required
- Ambient characteristic, ATEX zone if any
- Status of the contact(s) and quantity of each

1 = NC / 2 = NO / M = magnet switch / I = inductive switchS = fast response switches - (See the examples on the next page)



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## SWITCHES FOR PRESSURE GAUGES

29-06-2011 812 I1 17 C

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**812-17**/1

EXISTING SWITCH MODELS		WIRING	INDEX MOVEMENT TO THE RIGHT	CODIFICATION and DEFINITION		
NO = "normally open"		WITH ONE SWITCH				
NC = "/	ESPONSE SWITCHES  Contact NO	¥1 3	Status = NO (normally open)	S-1	M - 1	I-1
S-2:	Contact NC					
S-11:	First contact NO Second contact NO		Status = NC (normally closed)	S-2	M - 2	I-2
S-12:	First contact NO Second contact NC					
S-21:	First contact NC Second contact NO	1 3				
S-22:	First contact NC Second contact NC	WITH TWO SWITCHES				
MAGNE	T SWITCHES		First contact: Status = NO (normally open)	S - 11	M - 11	I - 11
M-1:	Contact NO		Second contact:	3-11	IVI - I I	1-11
M-2:	Contact NC		Status = NC (normally open)			
M-11:	First contact NO Second contact NO	<b>♦</b> 1 2 3				
M-12:	First contact NO Second contact NC		First contact: Status = NO (normally open)			
M-21:	First contact NC Second contact NO		Second contact: Status = NC (normally closed)	S - 12	M - 12	I - 12
M-22:	First contact NC Second contact NC	1 2 3	Status - No (normally closed)			
INDUCTIVE SWITCHES			First contact: Status = NC (normally closed)			
l-1:	Contact NO		Second contact:	S - 21	M - 21	I - 21
l-2:	Contact NC		Status = NO (normally open)			
l-11:	First contact NO Second contact NO	<b>V</b> 1 2 3				
l-12:	First contact NO Second contact NC		<u></u>			
l-21:	First contact NC Second contact NO		First contact: Status = NC (normally closed)	S - 22	M - 22	I - 22
I-22:	First contact NC Second contact NC	12 3	Second contact: Status = NC (normally closed)			



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