

Introduction

These contacts can be fitted to a gauge or thermometer. They are designed to open and close control circuits dependant on the instrument's pointer position.

Magnetic Contacts

They can be used under almost all operating conditions and are generally not affected by vibrations.
To close the circuit, the contact pin of the movable contact arm is attracted by a permanent magnet fastened to the supporting arm, immediately before the set value has been reached. The magnet's retention force ensures that snap-action contacts are more resistant against shock and vibration whilst switching safety is enhanced by the increased contact pressure.

TECHNICAL
- Nominal operating voltage: 250V max
- Starting and breaking current: 1,0A max
- Permanent current: 0,6A max
- Breaking capacity: 30W, 50VA max
- Contact material: Ag80/Ni20 (other material upon request)
- Switching precision: approx. 2-5% of final scale value

Inductive Contacts

They are equipped with non touching proximity switches intrinsic safety classified as Eex ib IIC T6 and homologated for zones 1 and 2. This version is offered with PTB certificate of conformity to EN.50014 and EN 50020 optional on request multifunctional relays. Due to their contact free operation, switching precision and long service life, these contacts are suitable for any industrial application and should preferably be used with oil filled measuring instruments. The output signal is determined by the presence or absence of a control vane moved by the instruments pointer within the electromagnetic field of the proximity switch.

TECHNICAL
- Rated voltage: 8 V = (Ri ~ 1KOhm)
- Operating voltage: 5 ~ 25V
- Current consumption:
  ≥3mA (active face free)
  ≤1mA (active face covered)
- Switching precision: approx. 0,5% of final scale value

Low Action Contacts

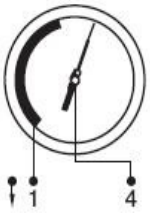
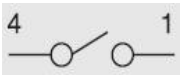
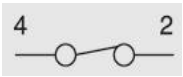
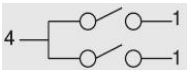
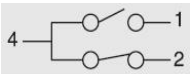
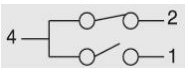
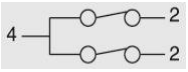
They are used in the absence of high contact loads and vibrations. They are suitable for lower pressures.
The contact is instantaneously released upon touching of the two contact pins. These contacts are not suitable for use in high duty operation, aggressive atmosphere and measuring instruments filled with liquids.

TECHNICAL
- Nominal operating voltage: 250 V max
- Starting and breaking current: 0,7 A max
- Permanent current: 0,6A max
- Breaking capacity: 10 W 18 VA max
- Switching precision: approx. 0,5% of final scale value
- Contact material: Ag80 / Ni20 (other material upon request)f

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Electronic Contacts

For any industrial applications and should preferably be used with oil filled instruments. More cheaper then inductive contacts are not required multifunctional relays. They're equipped non touching proximity switches with output signal in PNP suitable for switching small DC loads (10…30CC, ≤1mA), specially for instance PLC signal inputs, commutation of circuit in these contacts usually named "closes" and is the contrary of inductive contacts circuit's. When the metal flag is into the proximity sensor: contact close, when the flag is out of the proximity sensor contact open.

	Single Contact Wiring Scheme		Double Contact Wiring Scheme			
Clockwise pointer motion contact function	 Contact Closed	 Contact Open	 1st contact closed 2nd contact closed	 1st contact closed 2nd contact open	 1st contact open 2nd contact closed	 1st contact open 2nd contact open
Type code and function index of contacts and electrical scheme on break state	 NO	 NC	 2NO	 1NO+1NC	 1NC+1NO	 2NC
Magnetic	M-1	M-2	M-11	M-12	M-21	M-22
Inductive	I-1	I-2	I-11	I-12	I-21	I-22
Low action	S-1	S-2	S-11	S-12	S-21	S-22
Electronic	E-1	E-2	E-11	E-12	E-21	E-22
Note: The addition of mechanical electrical contacts affects the accuracy of instruments by 50%. i.e. 1% becomes 1.5%						

How to order

Please specify:

M = Magnetic
I = Inductive
S = Low action
E = Electronic

1 = contact closes
2 = contact opens

Example: M12