

Inductive contact system

Type KI – pressure gauges and thermometers

Date: June 2019

Sheet No.: KI

Contact type KI – inductive

- Inductive contact system for reliable contact function for pressure gauges and thermometers
- Vibration proof
- For dry and liquid filled instruments
- 1 or 2 contact points
- Break or close function
- Working voltage 5-25 VDC
- 100 mA load (transistor outlet)
- Long durability



Application

The inductive contact type functions via a proximity type of switching, i.e. without mechanical contact.

Due to the proximity type of switching, the switching accuracy and the high service life, inductive contacts may be used for almost all industrial applications, and should be given special preference for areas under a risk of an occasional explosive atmosphere.

If suitable isolating amplifiers are used, the operating material complies with the “i” type of protection, i.e. intrinsically safe which is classified under EEx ib II C T6 and permitted in areas which are under risk of explosion.

Inductive contacts always require the use of a relay or similar.

Specifications

Contact system	Type KI, inductive
Instrument size	DN 100 and DN 160 on request
Contact type KI	Inductive
Number	1, 2 or 3
Function	Break, close or shift
Voltage	5 – 25 VDC
Own consumption	≥3 mA - activated
Max. load	≤1 mA - non-activated ≤100 mA
Min. measuring range	Pressure gauge: 1 bar (15 psi) Thermometer: 80°C (180°F)
Working range	10-90% of Span
Min. work. range	5% of Span
Accuracy	± 2% at span ≤ 4 bar ± 1,5% at span ≥ 4 bar
Hysteresis	As specific instrument class
Ambient temperature	-20+70°C
Electrical connection	Plug, ISO 4400 (DIN43650-A) 2 plugs by 2 contacts
Load	Depends on the relays used

TEMPRESS reserves the right to changes without notice

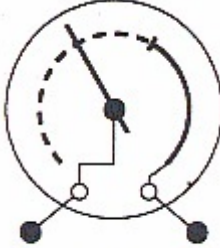





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ALL THE CONTACT FUNCTIONS BELLOW ARE BASED UPON RISING PRESSURE.

<p>Single contact (1 contact point)</p> <p>Available contact types: KN,KM,KE and KI</p>	 <p>1</p>	 <p>2</p>	<p>Contact Function : Break 1</p> <p>Contact Function : Close 2</p> <p>Contact Function : Shift 3</p> <p>Contact Function Separate Circuits : Break 4</p> <p>Contact Function Separate Circuits : Close 5</p>
<p>Double contact (2 contact points)</p> <p>Available contact types: KN,KM,KE and KI</p>	 <p>12</p>	 <p>21</p>	
	 <p>11</p>	 <p>22</p>	

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