- 1-channel
- 24 V DC supply voltage
- Lead breakage (LB) monitoring and short-circuit (SC) monitoring
- · Power Rail bus
- EMC acc. to NAMUR NE 21

Function

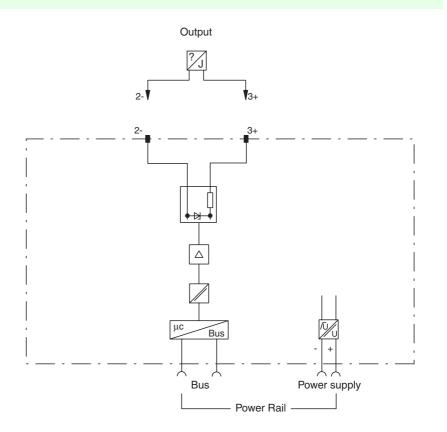
The KSD2-CO transmits a 0/4 mA ... 20 mA current signal. Loads between 30 Ω ... 750 Ω can be connected. The output is galvanically isolated from the bus and power supply.

The output field circuit is monitored for lead breakage and short circuit conditions.

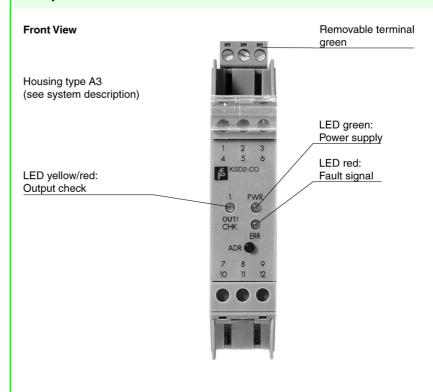
Application

The control of pneumatic positioners (I/P converters) and solenoid drivers.

Connection



Composition



| Supply | |
|-----------------------------------|--|
| Connection | Power Rail |
| Rated voltage | 20 30 V DC |
| Ripple | < 10 % |
| Power loss | 1.3 W |
| Power consumption | 1.3 W |
| Input | |
| Connection | Power Rail |
| Interface | CAN protocol via Power Rail bus |
| Output | |
| Connection | terminals 2, 3 |
| Current | 0/4 20 mA |
| Load | $30 \dots 750 \Omega$ |
| Residual ripple | ≤ 0.25 % |
| Lead monitoring | possible for I $_{\text{nominal}} \ge 1$ mA breakage I < 3.6 mA, short-circuit, load < 30 Ω |
| Transfer characteristics | |
| Deviation | 0.1 % of output signal range at 20 °C (293;K) |
| Influence of ambient temperature | 0.01 % / K of output signal range |
| Electrical isolation | |
| Output/power supply, internal bus | basic insulation acc. to EN 50178, rated insulation voltage 300 V _{eff} |
| Directive conformity | |
| Electromagnetic compatibility | |
| Directive 89/336/EC | EN 61326 |
| Standard conformity | |
| Insulation coordination | EN 50178 |
| Electrical isolation | EN 50178 |
| Electromagnetic compatibility | NE 21 |
| Protection degree | IEC 60529 |
| Climatic conditions | IEC 60721 |
| Ambient conditions | |
| Ambient temperature | -20 60 °C (253 333 K) |
| Damaging gas | acc. to ISA-S71.04-1985, severity level G3 |
| Mechanical specifications | |
| Protection degree | IP20 |
| Connection | terminal connection ≤ 2.5 mm ² |
| Mass | approx. 100 g |
| Dimensions | 20 x 100 x 115 mm (0.8 x 3.9 x 4.5 in) |
| Mounting | DIN rail mounting |

Notes

Software functions

Adjustable by the **PACT***ware*[™] human machine interface:

- TAG numbers, 28 alphanumeric characters, can be programmed into device
- Commentary, may be saved in PC memory
- Information on devices may be saved in PC memory
- · Physical units are adjustable
 - list see system description RPI
- Lead monitoring selectable
- · Separate detection and indication of lead breakage and lead short circuit
- Lower scale value and upper scale value of the measurement range
 - for the determination of the overflow and underflow range
 - for the configuration of the analogue monitor of the human machine interface
- Overrange and underrange alarm
- Malfunction output status
 - user defined
 - min.
 - max.
 - maintenance of the last accepted measurement value
- Simulation
 - of the input value
 - of the device diagnosis
 - of the process channel diagnosis