

## Signal Conditioners

The signal conditioner supplies the position transducers with a highly stable constant voltage. The wiper signal is picked off without load via a high-resistance input stage and transformed into a displacement proportional standardized output signal.

The excellent linearity, low temperature drift and sensor proximity of the signal conditioning process ensure full utilization of the outstanding benefits of the position transducers, guaranteeing the reliable, interference-free transmission of signals even over long distances. In the adjustable models, the zero point and range can be adjusted within wide limits using spindle trimmers. This permits standardized output signals to be adjusted even if the maximum path of the transducer is not completely utilized.

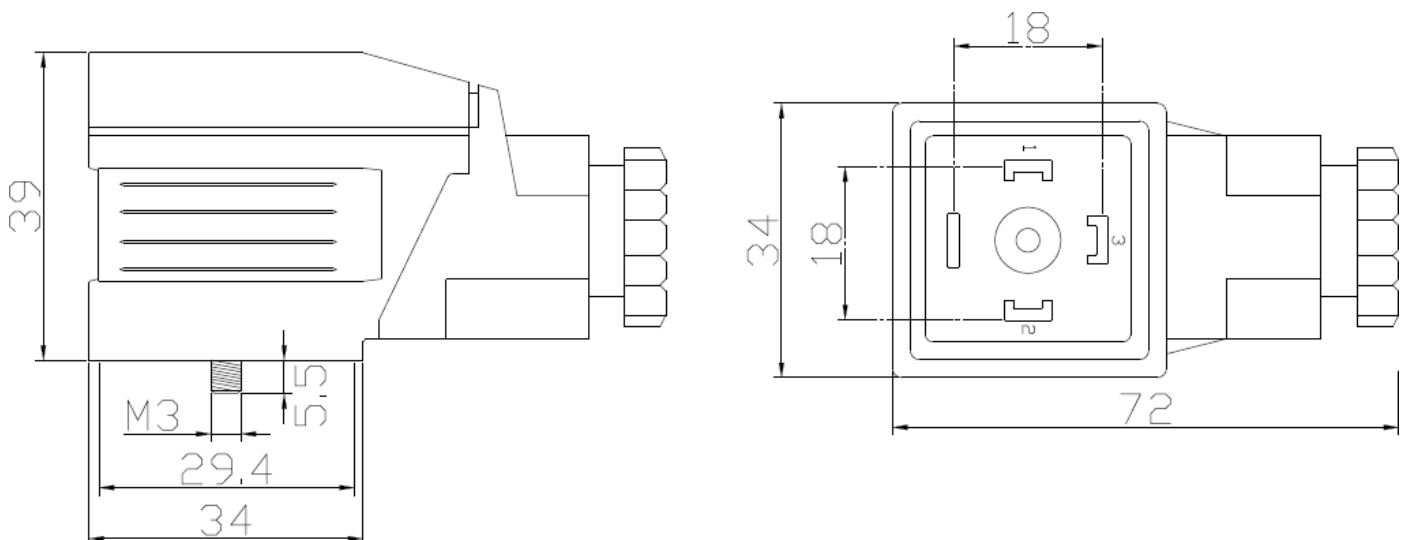
The electronic circuitry is integrated into a socket to fit the DIN 43650 appliance plug.

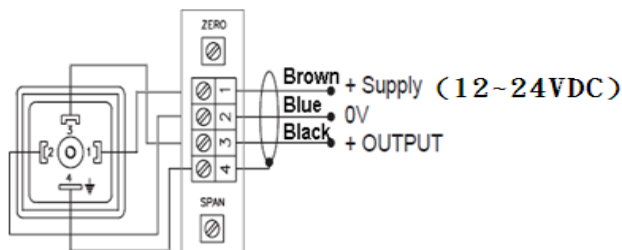
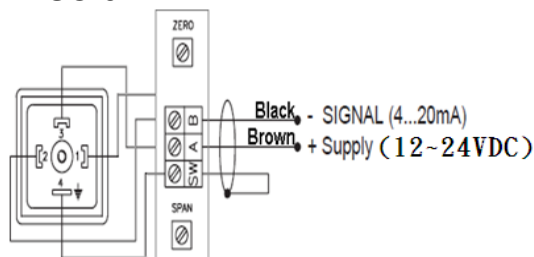
The wide operating voltage range permits to be supplied by unstabilized direct voltage sources. Selected SMD components with a wide temperature range guarantee maximum operating reliability even under extreme environmental conditions.

The KSC is connected by means of a four-pole terminal strip. It is possible to orient the connecting cable as required by turning the housing insert in 90° steps.


**CE**

**MECHANICAL DIMENSIONS: (Unit : mm)**



**ELECTRICAL CONNECTIONS:**
**KSC-01**

**KSC-02**

**ELECTRICAL / MECHANICAL DATA:**

Model	KSC-01	KSC-02
Power supply	15...30Vdc	10...30Vdc
Max. current consumption	15mA	32mA
Output signal	0...10Vdc	4...20mA
ZERO adjustment range	±10% FSO	±10% FSO
SPAN adjustment range	±10% FSO	±10% FSO
Response time (10...90%FSO)	1 msec.	6 msec.
Output noise (RMS 10...400Hz)	<0.05%FSO	<0.05%FSO
Inverse polarity protection.	YES	YES
Impulsive voltage peaks protect.	YES	YES
Zero and Span thermal drift in the compensated temp. range	<0.03% FSO/°C	<0.03% FSO/°C
Compensated temperature range	-20...+80°C	-20...+80°C
Operating temperature range	-30...+85°C	-30...+85°C
Typical linearity error	0.01%FSO	0.01%FSO
Transducer supply	>10Vdc	>10Vdc
Transducer resistance	>700Ω	>700Ω
Input impedance	>10MΩ	>10MΩ
Protection degree	IP65	IP65
Connection cable	3 wires with screen	2 wires with screen
Weight	80g	80g