

Circuit Module KAL-S7



Technical Data	
Input signal	4 ... 20 mA DC
Output signal	Two output
Standard	4 ... 20 mA and 2 ... 10 V DC
Alternative	0 ... 20 mA and 0 ... 10 V DC
Electrical isolation	3-way: Input, Output, Supply
Supply	20 ... 30 V/60 mA DC
Connection type	Screw clamp connection
Dimension (w/h/d)	22,5 x 75 x 110 mm

Application

The circuit module KAL-S7 transmits the electric signal of the load cell to a Siemens S7 (SPS) or a similar control device.

Function

The circuit module KAL_S7 receives the current signal from the load cell, amplifies it correspondingly to the range of the load cell and supplies a tare signal with the result that the output signal of the circuit module is 4 mA (live zero) when the container of tank on the load cell is empty.

The output signal of the KAL-S7 is a regulated current signal between 4 and 20 mA, which can be transmitted via an unshielded cable for a distance of more than 100 m. The maximum load resistance is 500 ohms. Therefore, the circuit module supplies a maximum output voltage of 10 V for an output current of 20 mA.

Input signal, output signal and the supply voltage of the module are electrical isolated (3-way isolation).

Power supply for the module KAL-S7

The circuit module should be supplied with 24 V DC in the range of 20 to 30 V. Poor condenser smoothing is sufficient.

An important advantage is the comfortable possibility to adjust the tare simply with a screw button without needing to change the programme of the S7 afterwards.



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