SCM 203

Industrial signal conditioner

Highlights

- **Galvanic isolation of input and output current loop**
- **Power supply from current loops**
- **Monitoring current loop without interrupting it**
- **Input and Output overvoltage protection**
- **Input and Output overcurrent protection**
- **High linearity and temperature stability**
- **Short response time**
- **Low output ripple**
- **35mm DIN rail mounting**

Description

SCM 203 is a current isolator intended for mounting on DIN 35mm rail. It provides galvanic isolation of current sensing loops. Conversion is linear. Connecting of input (4-20mA) and output (4-20mA) current is two way and passive which means that converter is power supplied from current loops. By connecting voltmeter to test connectors it is possible to monitor loop current without interrupting it.

Technical specification

Accuracy	⌖0.1% typical of full range
Temperature stability	⌖0.02%/°C
Response time	220msec (0-98%)
Output ripple	0.1% of full range RMS
Upper cut-off frequency (-3dB)	3kHz
Galvanic isolation	5.3 KV RMS in 1sec
Voltage power supply of the loop	10-32VDC
Output current	4-20mA
Test connection	40-200mV means 4-20mA (shunt 10ohm ⌖1%)
Output overvoltage protection	33V transzorb
Output overcurrent protection	fuse slow 125mA 20x5mm
Loop resistance	$R_{max}(ohms)=(V_{power\ supply}-10)/0.02$
Input current	4-20mA/32V max
Test connection	4-200mV means 4-20mA (shunt 10ohm ⌖1%)
Input overvoltage protection	33V transzorb
Input overcurrent protection	fuse slow 125mA 20x5mm
Temperature range	0-70 °C non condensed
Case	plastic case 35x90x70mm, IP50
Mounting	DIN 35mm rail

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