LABOR – ASTER

INDUSTRIAL AUTOMATION

AC 083
QMS

TWO-WIRE SEPARATOR type S3-L1

- **One channels in a housing with a width of 12,5mm**
- **Converting standard input signal to output 4…20mA current loop**
- **Full galvanic separation of the circuits**

PURPOSE:

Separator **S3-L1** is two-wire separator which isolates standard input signal (0…20mA, 4…20mA, 0…10V or other) from output 4…20mA current loop. Separator has one measuring channel.

A typical application of the separator is galvanic separation of the input circuit cooperating with the measuring transmitter installed in the facility from the central part (driver, controller etc.). It allows to reduce the impact of object interferences in the work of drivers, controllers, recorders and ensures the safety of these devices by isolating their inputs from the risk of working with remote signal sources (lightning, power energy, radio frequency interference).

BASIC TECHNIAL PARAMTERES:

Input signal	-	Standard 4…20mA, 0…20mA, 0…10V or other agreed with manufacturer
Input resistance - current input	-	50Ω
- voltage input	-	≥100kΩ
Output signal	-	4...20mA current loop supplied from external Uz voltage
Output voltage supply Uz	-	9...36V
Load resistance	-	max 750Ω for Uz=24V Rload=(Uz - 10V)/20mA
Accuracy	-	0,15% of range

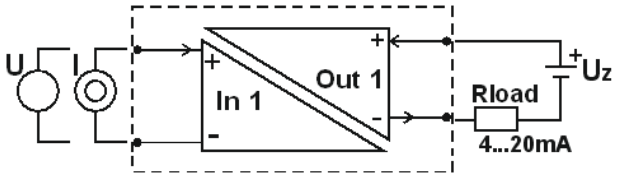
Output current “4mA” and “20mA” (the beginning and the end of the range) can be calibrated ±2% after removing the housing.

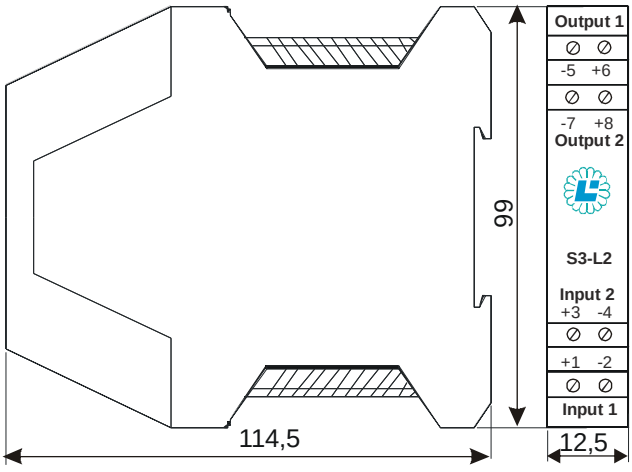
Nonlinearity	-	±0,05%
Error due to changes in Uz or Rload	-	±0,05%
Temperature drift	-	±0,015 % / ºC
Galvanic separation	-	2kV, 50Hz between all circuits
Time constant	-	<0,1s
Housing IP20	-	rail housing, 12,5mm wide
mounting	-	on TS35 and TS32 rail
Working conditions		
ambient temperature	-	-20...+65°C, humidity ≤85%
ambient atmosphere	-	free from dust and aggressive fumes
MTBF	-	300 000 hours

ORDERING:

Two-wire Separator type **S3-L2 – input range**

Order example: separator S3-L1 with 0-10V input signal: type S3-L1-(0…10V)





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