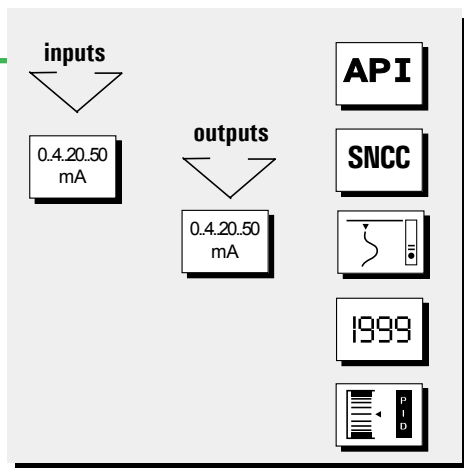


self-powered

Elit 93 - Elit 940



FUNCTIONS



APPLICATIONS

- Insulation of current loops.
- Insulation of measure transmitters from PLC boards.
- Insulation of 4-20mA signals from thermocouples whose insulation tends to become inefficient as temperature increases.



The friendly interface

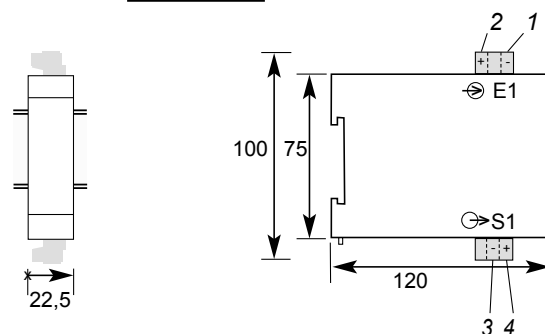
- 1 or 2 insulated meas. channels
- Insulation input / output
- Transfer ratio 1 / 1
- High transmission accuracy.
- High load impedance.
- Self supplied by the input signal
- Reduced dimensions

ADVANTAGES

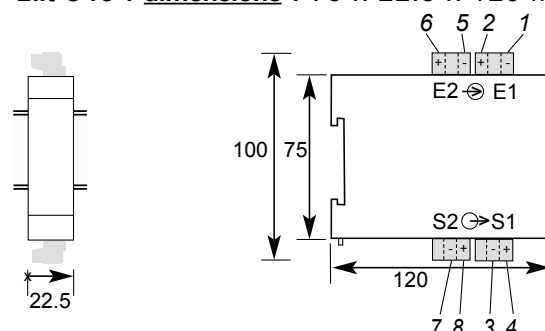
- The Elit 93 / 940 solves common point problems that may occur on current loops, and also helps to prevent rejections of inducted disturbances on the cables.
- The Elit 93 / 940 insulates sensors or transmitters from process receivers (PLCs, data takers, etc.)

EXTERNAL VIEW

Elit 93 : dimensions : 75 x 22.5 x 120 mm



Elit 940 : dimensions : 75 x 22.5 x 120 mm

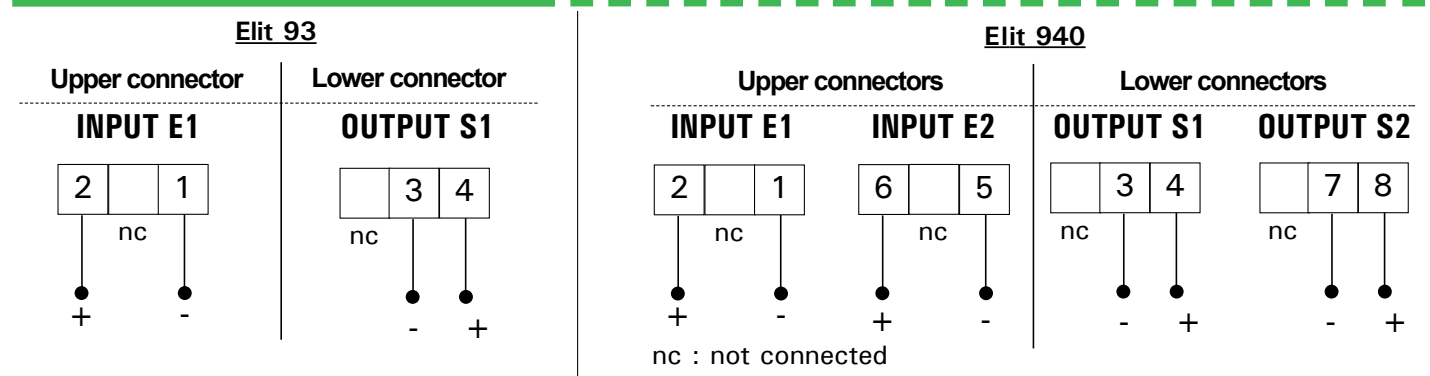


CONVERTER

TECHNICAL FEATURES AT 23°C

		Elit 93	Elit 940
INPUT	Number of channels	1 channel	2 channels
	Current	0..4..20..50 mA	0..4..20..50 mA
	Internal voltage drop at 20mA	$\leq 1.6 \text{ V}$	$\leq 1.6 \text{ V}$
	Load loss	$I \times L_r + 1.6 \text{ V}$	$I \times L_r + 1.6 \text{ V}$
	Max. admissible voltage U_e	$U_e \leq 16 \text{ VDC}$	$U_e \leq 16 \text{ VDC}$
SUPP. OUTPUT	Impedance in Ω at 20 mA	$L_r + 80 \Omega$	$L_r + 80 \Omega$
	Number of channels	1 channel	2 channels
	Current	0..4..20..50 mA	0..4..20..50 mA
	Max load (L_r in Ω) admissible at 20 mA	700 Ω	700 Ω
	Power supply	Self-powered by the input loop	Self-powered by the input loop
GENERALS	Nominal response time (0 to 90%) For load $L_r = 20 \Omega$ $L_r = 100 \Omega$ L_r influence $100 \leq L_r \leq 700 \Omega$	0.3 ms 1 ms 0.7 ms / 100 Ω	0.3 ms 1 ms 0.7 ms / 100 Ω
	Accuracy at nominal conditions Grade Temperature influence L_r : load resistance influence	0.15 % at $L_r = 100 \Omega$ $\pm 0.001 \text{ \% / } ^\circ\text{C}$ $\pm 0.05 \text{ \% / } 100\Omega$ for $L_r \leq 500\Omega$ $\pm 0.1 \text{ \% / } 50\Omega$ if $\geq 500\Omega$	0.15 % at $L_r = 100 \Omega$ $\pm 0.001 \text{ \% / } ^\circ\text{C}$ $\pm 0.05 \text{ \% / } 100\Omega$ for $L_r \leq 500\Omega$ $\pm 0.1 \text{ \% / } 50\Omega$ if $\geq 500\Omega$
	Temperatures Operating temperature Storage temperature	0 to 55°C -20 to +70 °C	0 to 55°C -20 to +70 °C
	Others Conversion ratio Insulation Input/output and bet. channels Uncondensed dampness Standards	1 / 1 2 Kv 50Hz 1mn 85 % CE - EN50081-2 and EN50082-2	1 / 1 2 Kv 50Hz 1mn 85 % CE - EN50081-2 and EN50082-2
	Dimensions : H x L x D	75 x 22.5 x 120 mm	75 x 22.5 x 120 mm
	Tightenings	Horizontal symmetrical DIN rail	Horizontal symmetrical DIN rail
	Tightness	Case / terminals IP 20	Case / terminals IP 20
	Terminals	Plug-off screwed connectors for flexible or rigid 2.5 mm ² wires	Plug-off screwed connectors for flexible or rigid 2.5 mm ² wires
	Weight	90 g	125 g
	MÉCANICAL		

WIRING



This instrument is dedicated to industrial applications. It has to be mounted in an electrical switchbox, or equivalent.

Your representative