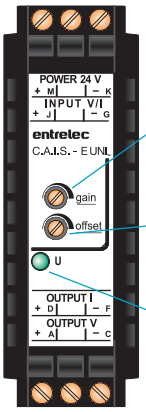
Analog signal converters C.A.I.S. - E

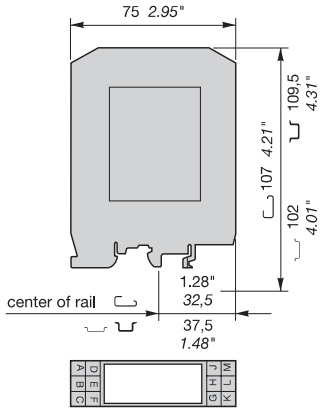
series 11 000



Gain: Potentiometer for amplification adjustment [1)]

Offset: Potentiometer for offset adjustment [1)]

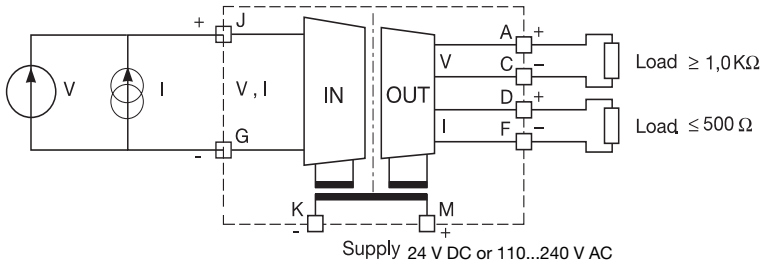
U: Supply voltage, green LED



[1)] Gain and Offset potentiometers are only available on the universally configurable device.

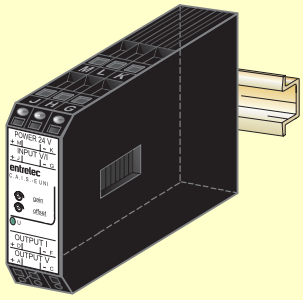
Analog signal converters with 3-way electrical isolation for standard signals (0...5 V, 0...10 V, 0...20 mA, 4...20 mA) C.A.I.S. - E UNI

Width 22.5 mm .886"



Approvals: c UL us LISTED **UL1604 Class I and II, Div. 2**

- Analog signal converter with 3-way electrical isolation for conditioning of standard signals
- C.A.I.S. - E UNI, a universally configurable converter, features gain and offset adjustments
- Nine single function analog converters also available
- Plug and Play, single function converters do not require adjustments
- 24 V DC supply voltage
- CE certified
- Optimal price/performance ratio



Type:	Input signal:	Output signal:	P/N 24 V DC	P/N 110...240 V AC
C.A.I.S. - E UNI	0...5 V, 0...10 V, 0...20 mA, 4...20 mA	0...5 V, 0...10 V, 0...20 mA, 4...20 mA	**0 011 700 00**	**0 011 705 21**
Single Function				
C.A.I.S. - E V/V	0...10 V	0...10 V	**0 011 710 21**	**0 011 720 23**
C.A.I.S. - E V/I		0...20 mA	**0 011 711 16**	**0 011 721 10**
C.A.I.S. - E V/I		4...20 mA	**0 011 712 17**	**0 011 722 11**
C.A.I.S. - E I/V	0...20 mA	0...10 V	**0 011 713 10**	**0 011 723 12**
C.A.I.S. - E I/I		0...20 mA	**0 011 714 11**	**0 011 724 13**
C.A.I.S. - E I/I		4...20 mA	**0 011 715 12**	**0 011 725 14**
C.A.I.S. - E I/V	4...20 mA	0...10 V	**0 011 716 13**	**0 011 726 15**
C.A.I.S. - E I/I		0...20 mA	**0 011 717 14**	**0 011 727 16**
C.A.I.S. - E I/I		4...20 mA	**0 011 718 25**	**0 011 728 27**
C.A.I.S. - E V/V	-10...+10 V	-10...+10 V	**0 011 719 26**	**0 011 729 20**

Technical data

Input circuit J - G	Current	Voltage
Input signal	0...20 mA / 4...20 mA	0...5 V / 0...10 V
Limitation of input signals	+55 mA	+ 11 V
Setting range gain (C.A.I.S. - E UNI)	± 5%	
Setting range offset (C.A.I.S. - E UNI)	± 5%	
Input impedance	50 Ω	1 MΩ
Output circuits D - F | A - C	Current	Voltage
Output signal	0...20 mA / 4...20 mA	0...5 V / 0...10 V
Output load	≤ 500 Ω	≥ 1.0 KΩ
Accuracy	0.5 % of the final value	
Temperature coefficient	± 500 ppm / °C	
Residual ripple	< 0.5 %	
Response time	200 µs	
Transmission frequency	2 KHz	
Reaction to an open input circuit	Low Fail Safe: Output voltage < -0.6 V Output current = 0 mA	
Supply circuit K - M		
Supply voltage	24 V DC	
Supply voltage tolerance	-15% ... + 15%	
Power consumption	typ 60 mA	
Display of operational status	V	
Supply voltage	LED green	
General data		
Testing voltage between all isolated circuits	2.5 kV AC	
Operating temperature range	0 °C ... +60 °C	
Storage temperature range	-20 °C ... +80 °C	
Degree of protection to DIN 40050	IP 20	
Mounting position	Ventilating slots at bottom and top	
Mounting on DIN-rail (EN 50022 and EN 50035)	Snap-on mounting	
Cable size single-wire/fine-strand	4 mm² (12 AWG) / 2.5 mm² (14 AWG)	

Accessories

R See section on markers

Type of marker	(21) Marker strips RB 5 A

Dip-switch configuration for C.A.I.S. - E UNI

Input	Output	Switch 1	2	3	4	5	6	7	8
0 ... 5 V	0 ... 5 V			■	■	■	■	■	
0 ... 5 V	0 ... 10 V			■	■		■	■	
0 ... 5 V	0 ... 20 mA			■	■		■	■	
0 ... 5 V	4 ... 20 mA			■	■		■		■
0 ... 10 V	0 ... 5 V			■	■	■		■	
0 ... 10 V	0 ... 10 V			■	■	■	■	■	
0 ... 10 V	0 ... 20 mA			■	■	■	■	■	
0 ... 10 V	4 ... 20 mA			■	■	■	■		■
0 ... 20 mA	0 ... 5 V	■			■			■	
0 ... 20 mA	0 ... 10 V	■			■		■	■	
0 ... 20 mA	0 ... 20 mA	■			■		■	■	
0 ... 20 mA	4 ... 20 mA	■			■		■		■
4 ... 20 mA	0 ... 5 V	■	■					■	
4 ... 20 mA	0 ... 10 V	■	■				■	■	
4 ... 20 mA	0 ... 20 mA	■	■				■	■	
4 ... 20 mA	4 ... 20 mA	■			■		■	■	

Legend	
■	ON
	OFF