

SIGNAL CONVERTER LOOP POWER ISOLATOR, 1-CHANNEL IN: 4 TO 20 MA OUT: 4 TO 20 MA WIDTH 6.2 MM SCREW TERMINAL



Figure similar

Article number		
Product brand name		SIRIUS
Product category		Signal converter
Product designation		Single-range converters
Design of the product		Single-range converters, passive
Product type designation		3RS70

General technical data		
Display version LED		No
Number of channels		1
Insulation voltage		
• for overvoltage category III according to IEC 60664		
— with degree of pollution 3 rated value	V	50
Voltage drop at operating resource	V	4.1
Surge voltage resistance rated value	V	1 500
Protection class IP		IP20
Shock resistance		
• acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms

Vibration resistance		
• acc. to IEC 60068-2-6		6 ... 150 Hz: 2 g
Equipment marking		
• acc. to DIN EN 61346-2		K
• acc. to DIN EN 81346-2		T

Precision		
Relative metering precision	%	0.1
Temperature drift per °C	%/°C	0.015
Voltage ripple maximum	mV	5
Settling time for 1 % deviation	ms	6

Inputs/ Outputs		
Input voltage	V	30
Property of the output Short-circuit proof		No
Type of signal at input		4 ... 20 mA
Type of signal at output		4 ... 20 mA

Outputs		
Load		
• at the current output maximum	Ω	1 000
Influence of the load on measuring accuracy		0.06 %/100 Ω

Electromagnetic compatibility		
EMC emitted interference		
• acc. to IEC 60947-1		Environment B
EMI immunity		
• acc. to IEC 60947-1		corresponds to degree of severity 3
Conducted interference		
• due to burst acc. to IEC 61000-4-4		1 kV 5/50 ns
• due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge

Galvanic isolation		
Design of the electrical isolation		2 paths
Galvanic isolation		
• between entrance and outlet		Yes
• between the outputs		No
• between the inputs		No
• between the voltage supply and other circuits		No

Connections/Terminals		
Type of electrical connection		screw-type terminals
Type of connectable conductor cross-sections		

• solid		1x (0.25 ... 2.5 mm²)
• finely stranded with core end processing		1x (0.25 ... 1.5 mm²)
• at AWG conductors solid		1 x (20 ... 14)
Connectable conductor cross-section		
• solid	mm²	0.25 ... 2.5
• finely stranded with core end processing	mm²	0.25 ... 1.5
AWG number as coded connectable conductor cross section		
• solid		20 ... 14
Tightening torque		
• with screw-type terminals	N·m	0.5 ... 0.6

Mounting position		any
Mounting type		snap-on mounting
Height	mm	93
Width	mm	6.2
Depth	mm	71
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	0
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0

Installation altitude at height above sea level		
• maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60

• during storage	°C	-40 ... +80
• during transport	°C	-40 ... +80
Relative humidity		
• during operation	%	10 ... 95

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates	other
 CSA	 UL	 EAC	 EG-Konf.
		Type Test Certificates/Test Report	Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RS7020-1ET00>

Cax online generator

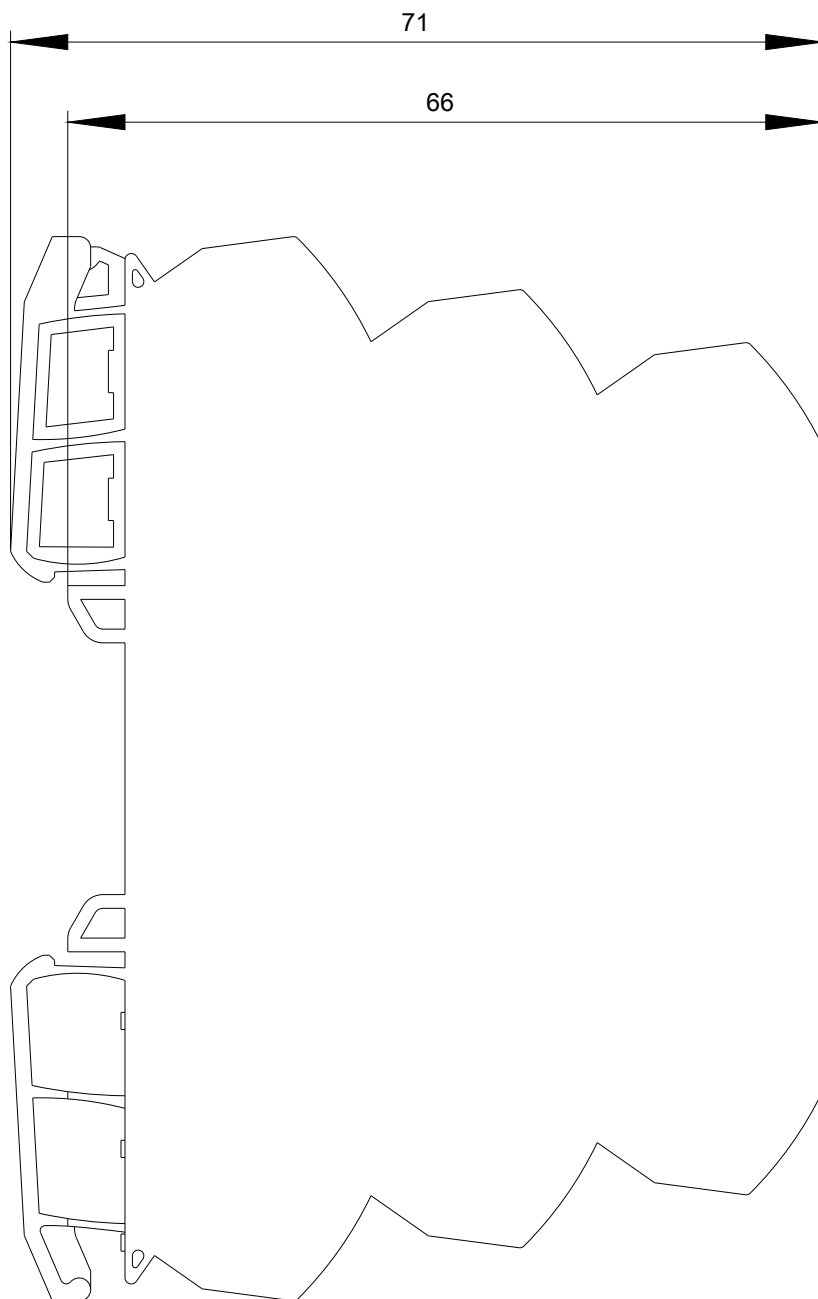
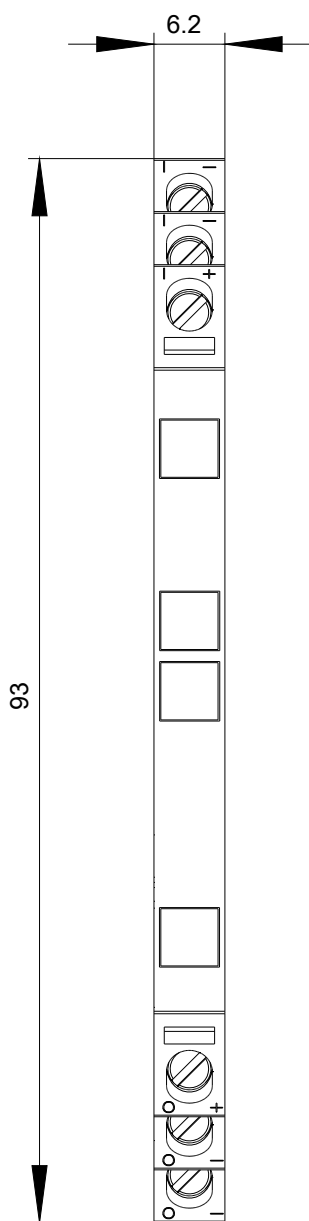
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7020-1ET00>

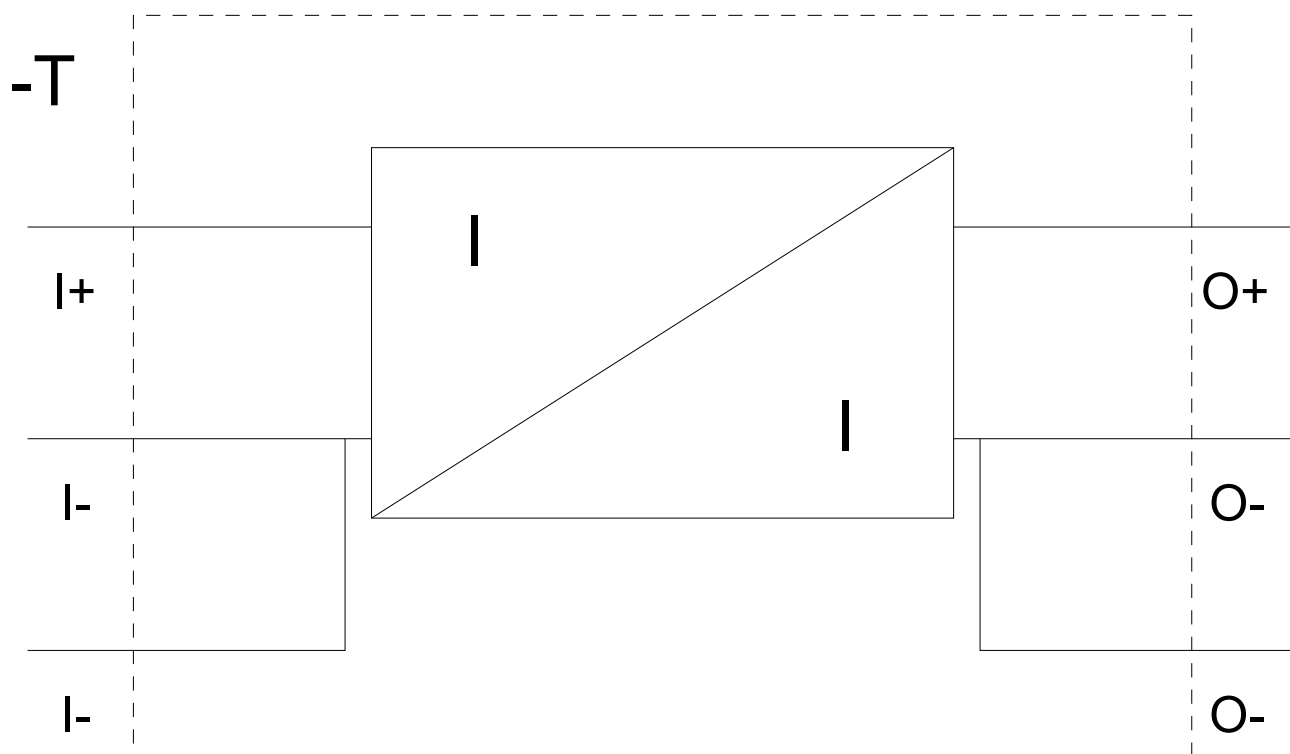
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RS7020-1ET00>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7020-1ET00&lang=en





last modified:

07/26/2017