SIEMENS

Data sheet

Figure similar

3RS2900-1AW30



Sensor extension module for 3RS26/8 Temperature monitoring relay, 2 sensors, sensor status relay, analog input, 22.5 mm width, 24 - 240 V AC/DC screw terminals

product brand name	SIRIUS
product designation	Sensor extension module
design of the product	2 additional resistivity sensors, analog input 4 20 mA, ATEX via
	analog input, status relay
product type designation	3RS2
General technical data	
product function	temperature monitoring
display version LED	Yes
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	4 kV
degree of pollution	3
protection class IP	20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
certificate of suitability relating to ATEX	Yes, with digital unit 3RS26/3RS28
reference code according to IEC 81346-2	K
influence of the surrounding temperature	0.05% per K deviation from T20
measurable temperature	
 initial value 	-50 °C
 full-scale value 	750 °C
measurable Fahrenheit temperature	
 initial value 	-58 °F
 full-scale value 	1 382 °F
Substance Prohibitance (Date)	05/01/2012
product function	
error memory	Yes
 external reset 	Yes
design of the sensor connectable	Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC
measurable temperature with KTY-sensor maximum	300 °C
sensor current with KTY-sensor	0.33 mA
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 240 V
28520001010/20	Subject to change without notice

• at 60 Hz rated value	24 240 V
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 50 Hz	24 240 V
at 60 Hz rated value	24 V
• at 60 Hz	24 240 V
control supply voltage 2 at AC	24 V
 at 50 Hz rated value at 60 Hz rated value 	24 V 24 V
control supply voltage at DC rated value	24 v 24 240 V
control supply voltage 1	27 270 V
at DC rated value	24 V
• at DC	24 240 V
operating range factor control supply voltage rated	
value at DC	
 initial value 	0.85
 full-scale value 	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
 initial value 	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
supply voltage frequency for auxiliary and control circuit	50 60 Hz
number of measuring circuits	3
buffering time in the event of power failure minimum	20 ms
Precision	
relative metering precision	1 %
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the NO contacts of the relay outputs required 	gL/gG: 6 A or MCB type C: 1 A
 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required 	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A
 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link 	gL/gG: 6 A or MCB type C: 1 A
 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link for short-circuit protection of the NO contacts of the relay outputs safety-related required 	gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link for short-circuit protection of the NO contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required 	gL/gG: 6 A or MCB type C: 1 A
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 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link for short-circuit protection of the NO contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required 	gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0
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 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link for short-circuit protection of the NO contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required Communication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 	gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 1 0
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 for short-circuit protection of the NO contacts of the relay outputs required for short circuit protection of the NC contacts of the relay outputs required design of the fuse link for short-circuit protection of the NO contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts of the relay outputs safety-related required for short circuit protection of the NC contacts in unber of NC contacts for auxiliary contacts operational current of auxiliary contacts at DC-13 at 24 V at 250 V contact reliability of auxiliary contacts according to UL operating frequency rated value ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 at 24 V at 25 V continuous current of the	gL/gG: 6 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 1 A 0.2 A 0.1 A one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 50 60 Hz 3 A 1 A 0.2 A

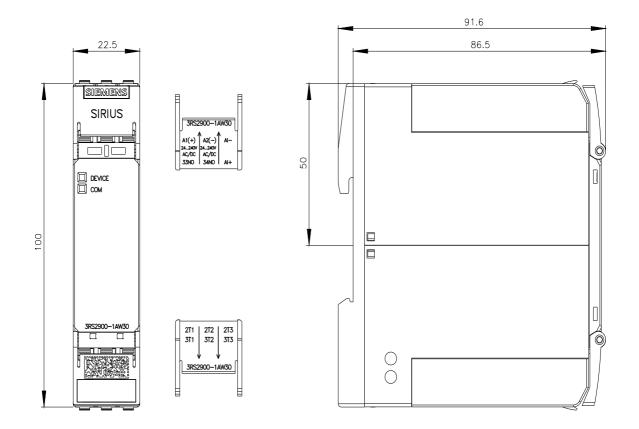
Electromagnetic compatibility					
EMC emitted interference according to IEC 60947-1	Class B				
conducted interference					
due to burst according to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports)				
 due to conductor-earth surge according to IEC 	2 kV (line to ground)				
61000-4-5	(
 due to conductor-conductor surge according to IEC 	1 kV (line to line)				
61000-4-5					
field-based interference according to IEC 61000-4-3	10 V/m				
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge				
Galvanic isolation					
design of the electrical isolation	galvanic isolation				
galvanic isolation					
 between input and output 	Yes				
 between the voltage supply and other circuits 	Yes				
Safety related data					
Safety Integrity Level (SIL) according to IEC 61508	1				
SIL Claim Limit (subsystem) according to EN 62061	1				
performance level (PL) according to EN ISO 13849-1	C				
category according to EN ISO 13849-1	1				
Safe failure fraction (SFF)	66 %				
PFHD with high demand rate according to EN 62061	0.0000029 1/h				
hardware fault tolerance according to IEC 61508	0				
Connections/ Terminals					
product component removable terminal for auxiliary and control circuit	Yes				
type of electrical connection	screw-type terminals				
for auxiliary and control circuit	screw-type terminals				
type of connectable conductor cross-sections	Screw-type terminals				
solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
 finely stranded with core end processing 	1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)				
 at AWG cables solid 	1x (20 12), 2x (20 14)				
connectable conductor cross-section	TX (20 12), 2X (20 14)				
• solid	0.5 4 mm²				
 finely stranded with core end processing 	0.5 4 mm ²				
AWG number as coded connectable conductor cross section					
• solid	20 12				
stranded	20 12				
tightening torque with screw-type terminals	0.6 0.8 N·m				
Installation/ mounting/ dimensions	0.0 0.0 14 11				
mounting position					
fastening method	any screw and snap-on mounting onto 35 mm DIN rail				
height	100 mm				
width	22.5 mm				
depth	90 mm				
required spacing					
with side-by-side mounting					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— downwards	0 mm				
— at the side	0 mm				
 for grounded parts 					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— at the side	0 mm				
— downwards	0 mm				
for live parts					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				

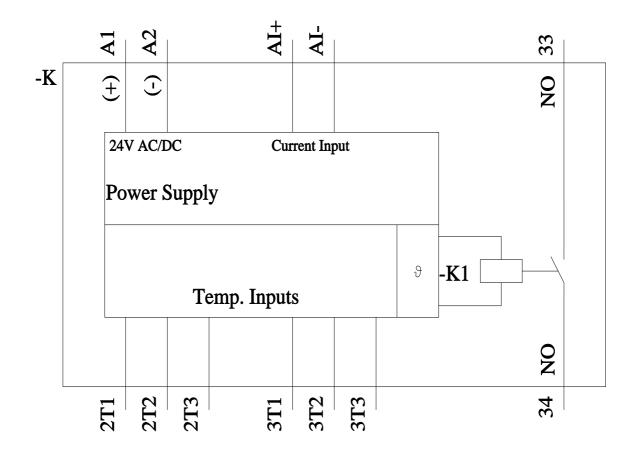
— downwards				0 mm			
— at the side			0 mr	0 mm			
Ambient conditions							
installation altitude at height above sea level maximum		2 000 m					
ambient temperature							
 during operation 				-25 +60 °C			
 during storage 			-40 +85 °C				
 during transport 			-40 +85 °C				
relative humidity during	operation			70 %			
	osion protection category for dust		Ex II (2) D [b1] [Ex h] [pyb] [tb] [mb] [kb] [sb] III C Db				
explosion protection of	category for gas		Ex II (2) G [b1] [Ex II] [bb] [eb] [pyb] [mb] [ob] [q] [kb] [sb] II C Gb				
Certificates/ approvals	3 3 3 3						
General Product App	roval					EMC	
Contrain roudor App						Lino	
		Confirmatio	n	^		~	
(KD)	(m)	Command	<u>, , , , , , , , , , , , , , , , , , , </u>	(11)	FAL	k a la l	
U.					гпі	<u>v</u>	
CSA	ccc			UL		RCM	
For use in hazardous	locationa	Functional		Declaration of Cor	formity	Test Certificates	
For use in nazardous	locations	Safety/Safety Machinery	/ Of	Declaration of Cor	iformity	Test Certificates	
		Machinery					
Explosion Protection		Type Examina	ation			Special Test Certific-	
Certificate	/c\	Certificate		()	UK	ate	
	$\langle c x \rangle$		-		UK		
	ATEX			EG-Konf.	CH		
Marine / Shipping	other						
Marine / Shipping	other						
ANT/40 AL	Confirmation						
And the second s	commation						
DNV-GL							
DAVOLICISMON							
Fundlage information							
Further information							
	Information- and Downloadcenter (Catalogs, Brochures,)						
https://www.siemens.com/ic10							
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RS2900-1AW30							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS2900-1AW30							
Service&Support (Mai	nuals, Certificates,	Characteristics,	FAQs	,)	-		
https://support.industry.	https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AW30						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-1AW30&lang=en

Characteristic: Derating

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