SIEMENS

Data sheet

3RS2900-2AA30



Sensor extension module for 3RS26/8 Temperature monitoring relay, 2 sensors, sensor status relay, analog input, 22.5 mm width, 24 V AC/DC, spring-type terminals (push-in)

Figure similar

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 acc. to IEC 60068-2-27	11g / 15 ms	
vibration resistance acc. to IEC 60068-2-6	10 55 Hz: 0.35 mm	
switching behavior	monostable	
mechanical service life (switching cycles) typical	10 000 000	
electrical endurance (switching 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 acc. to IEC 81346-2	К	
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)	01.05.2012 00:00:00	
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 24 V
• at 60 Hz rated value	24 24 V
control supply voltage 1 at AC	
 at 50 Hz rated value 	24 V
• at 50 Hz	24 24 V
 at 60 Hz rated value 	24 V
• at 60 Hz	24 24 V
control supply voltage 2 at AC	
at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
control supply voltage at DC rated value	24 24 V
control supply voltage 1	
at DC rated value	24 V
● at DC	24 24 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	
	4.0/
relative metering precision	1 %
relative metering precision Short-circuit protection	1 %
	1 %
Short-circuit protection	gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the	
Short-circuit protection design of the fuse link • for short-circuit protection of the NO contacts of the relay outputs required • for short circuit protection of the NC contacts of the	gL/gG: 6 A or MCB type C: 1 A
Short-circuit protection design of the fuse link • 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
Short-circuit protection design of the fuse link • 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 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 gL/gG: 6 A or MCB type C: 1 A
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Short-circuit protection design of the fuse link • 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 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 protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A 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
Short-circuit protection design of the fuse link • 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 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 protectool Munication/ Protocol protocol is supported IO-Link protocol Auxiliary circuit material of switching contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	gL/gG: 6 A or MCB type C: 1 A 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 No 1
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Short-circuit protection design of the fuse link • 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 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 munication/ 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 • at 24 V </th <th>gL/gG: 6 A or MCB type C: 1 A 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 No 1 AgSnO2 0 1 1 0</th>	gL/gG: 6 A or MCB type C: 1 A 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 No 1 AgSnO2 0 1 1 0
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Short-circuit protection design of the fuse link • 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 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 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 • at 24 V • at 250 V contact reliability of auxiliary contacts according to UL influence of the surrounding temperature operating frequency rated value <th>gL/gG: 6 A or MCB type C: 1 A 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 gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 1 0 1 1 1 1 0 1</th>	gL/gG: 6 A or MCB type C: 1 A 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 gL/gG: 2 A or MCB type C: 1 A No AgSnO2 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 1 0 1 1 1 1 0 1
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a at 125 \/	0.2 A	
at 125 V	0.2 A 6 A	
continuous current of the DIAZED fuse link of the output relay	2 A	
continuous current of DIAZED fuse link of the output relay safety-related	2 A	
Electromagnetic compatibility		
EMC emitted interference acc. to IEC 60947-1	Class B	
conducted interference		
 due to burst acc. to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports)	
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV (line to ground)	
 due to conductor-conductor surge acc. to IEC 	1 kV (line to line)	
61000-4-5 field-based interference 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	galvanic isolation	
galvanic isolation	Vee	
between input and output	Yes	
between the voltage supply and other circuits	No	
Safety related data		
Safety Integrity Level (SIL) acc. to IEC 61508	1	
SIL Claim Limit (subsystem) acc. to EN 62061	1	
performance level (PL) acc. to EN ISO 13849-1	C	
category acc. to EN ISO 13849-1	1	
Safe failure fraction (SFF)	66 %	
PFHD with high demand rate acc. to EN 62061	0.0000026 1/h	
hardware fault tolerance acc. to IEC 61508	0	
T1 value for proof test interval or service life acc. to IEC 61508	20 у	
Connections/ Terminals		
product component removable terminal for auxiliary and control circuit	Yes	
type of electrical connection	Push-in terminal	
 for auxiliary and control circuit 	spring-loaded terminals (push-in)	
type of connectable conductor cross-sections		
• solid	0.5 4 mm²	
 finely stranded with core end processing 	0.5 2.5 mm ²	
 finely stranded without core end processing 	0.5 4 mm²	
 at AWG cables solid 	20 12	
at AWG cables stranded	20 12	
connectable conductor cross-section		
• solid	0.5 4 mm²	
 finely stranded with core end processing 	0.5 2.5 mm ²	
finely stranded without core end processing	0.5 4 mm²	
AWG number as coded connectable conductor cross section		
● solid	20 12	
stranded	20 12	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw and snap-on mounting onto 35 mm standard mounting 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 mm		
Ambient conditions	•		
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	2 000 m		
during operation	-25 +60 °C		
during storage	-40 +85 °C		
during transport	-40 +85 °C		
relative humidity during operation	70 %		
explosion protection category for dust	Ex II (2) D [b1] [Ex h] [pyb] [th] [mh] [kh] [sh] III C Dł	2
explosion protection category for gas	Ex II (2) G [b1] [Ex h] [db] [e		
Certificates/ approvals		o] [b] [iio] [oo] [d] [iio	1[30] 11 0 00
General Product Approval		EMC	
General Product Approval	EAC		For use in hazard ous locations
General Product Approval Image: Constant and the second	Test Certificates	EMC	
Functional Safety/Safety of Declaration of Conformity	Test Certificates Special Test Certificates	RCM	ous locations

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS2900-2AA30

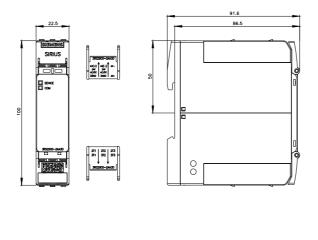
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

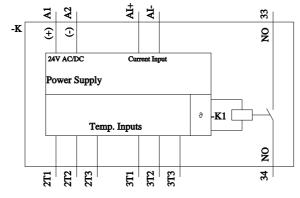
https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-2AA30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-2AA30/manual





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