



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

Figure similar

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Sensor extension module
<b>design of the product</b>	2 additional resistivity sensors, analog input 4 ... 20 mA, ATEX via analog input, status relay
<b>product type designation</b>	3RS2
<b>General technical data</b>	
<b>product function</b>	temperature monitoring
<b>display version LED</b>	Yes
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
<b>test voltage for isolation test</b>	4 kV
<b>degree of pollution</b>	3
<b>protection class IP</b>	20
<b>shock resistance according to IEC 60068-2-27</b>	11g / 15 ms
<b>switching behavior</b>	monostable
<b>mechanical service life (operating cycles) typical</b>	10 000 000
<b>electrical endurance (operating cycles) at AC-15 at 230 V typical</b>	100 000
<b>thermal current of the switching element with contacts maximum</b>	5 A
certificate of suitability relating to ATEX	Yes, with digital unit 3RS26/3RS28
<b>reference code according to IEC 81346-2</b>	K
<b>influence of the surrounding temperature</b>	0.05% per K deviation from T20
<b>measurable temperature</b>	
• initial value	-50 °C
• full-scale value	750 °C
<b>measurable Fahrenheit temperature</b>	
• initial value	-58 °F
• full-scale value	1 382 °F
<b>Substance Prohibitance (Date)</b>	05/01/2012
<b>SVHC substance name</b>	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5
<b>product function</b>	
• error memory	Yes
• external reset	Yes
<b>design of the sensor connectable</b>	Resistance sensors: Pt100, Pt1000, KTY83-110, KTY84, NTC
measurable temperature with KTY-sensor maximum	300 °C
<b>sensor current with KTY-sensor</b>	0.33 mA
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC/DC

<b>control supply voltage at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	24 ... 240 V 24 ... 240 V
<b>control supply voltage 1 at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 50 Hz</li> <li>at 60 Hz rated value</li> <li>at 60 Hz</li> </ul>	24 V 24 ... 240 V 24 V 24 ... 240 V
<b>control supply voltage 2 at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	24 V 24 V
control supply voltage at DC rated value	24 ... 240 V
<b>control supply voltage 1</b>	
<ul style="list-style-type: none"> <li>at DC rated value</li> <li>at DC</li> </ul>	24 V 24 ... 240 V
<b>operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.85 1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.85 1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	0.85 1.1
supply voltage frequency for auxiliary and control circuit	50 ... 60 Hz
<b>number of measuring circuits</b>	3
<b>buffering time in the event of power failure minimum</b>	20 ms
<b>Precision</b>	
<b>relative metering precision</b>	1 %
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>for short-circuit protection of the NO contacts of the relay outputs required</li> <li>for short circuit protection of the NC contacts of the relay outputs required</li> </ul>	gL/gG: 6 A or MCB type C: 1 A gL/gG: 6 A or MCB type C: 1 A
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>for short-circuit protection of the NO contacts of the relay outputs safety-related required</li> <li>for short circuit protection of the NC contacts of the relay outputs safety-related required</li> </ul>	gL/gG: 2 A or MCB type C: 1 A gL/gG: 2 A or MCB type C: 1 A
<b>Communication/ Protocol</b>	
protocol is supported IO-Link protocol	No
<b>Auxiliary circuit</b>	
<b>material of switching contacts</b>	AgSnO2
<b>number of NC contacts for auxiliary contacts</b>	0
<b>number of NO contacts for auxiliary contacts</b>	1
number of CO contacts for auxiliary contacts	0
<b>operational current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> <li>at 250 V</li> </ul>	1 A 0.2 A 0.1 A
<b>contact reliability of auxiliary contacts</b>	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
<b>contact rating of auxiliary contacts according to UL</b>	R300 / B300
<b>operating frequency rated value</b>	50 ... 60 Hz
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	3 A
<b>ampacity of the output relay at DC-13</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> </ul>	1 A 0.2 A
<b>continuous current of the DIAZED fuse link of the output</b>	6 A

<b>relay</b>	
<b>continuous current of DIAZED fuse link of the output relay safety-related</b>	2 A
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	Class B
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV (power ports), 1 kV (signal ports) 2 kV (line to ground) 1 kV (line to line)
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>Galvanic isolation</b>	
<b>design of the electrical isolation</b>	galvanic isolation
<b>galvanic isolation</b>	
<ul style="list-style-type: none"> <li>• between input and output</li> <li>• between the voltage supply and other circuits</li> </ul>	Yes Yes
<b>Safety related data</b>	
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
<b>Safe failure fraction (SFF)</b>	66 %
<b>hardware fault tolerance according to IEC 61508</b>	0
<b>T1 value for proof test interval or service life according to IEC 61508</b>	20 a
<b>Connections/ Terminals</b>	
<b>product component removable terminal for auxiliary and control circuit</b>	Yes
<b>type of electrical connection</b>	screw-type terminals
<ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• for AWG cables solid</li> </ul>	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> ) 1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> ) 1x (20 ... 12), 2x (20 ... 14)
<b>connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>	0.5 ... 4 mm <sup>2</sup> 0.5 ... 4 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>	20 ... 12 20 ... 12
tightening torque with screw-type terminals	0.6 ... 0.8 N·m
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting onto 35 mm DIN rail
<b>height</b>	100 mm
<b>width</b>	22.5 mm
<b>depth</b>	90 mm
<b>required spacing</b>	
<ul style="list-style-type: none"> <li>• with side-by-side mounting               <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts               <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts</li> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm  0 mm 0 mm 0 mm 0 mm 0 mm

— 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
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
relative humidity during operation	70 %
<b>explosion protection category for dust</b>	Ex II (2) D [b1] [Ex h] [pyb] [tb] [mb] [kb] [sb] III C Db
<b>explosion protection category for gas</b>	Ex II (2) G [b1] [Ex h] [db] [eb] [pyb] [mb] [ob] [q] [kb] [sb] II C Gb

#### Approvals Certificates

General Product Approval	EMC	For use in hazardous locations
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[Confirmation](#)



[Explosion Protection Certificate](#)

For use in hazardous locations	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Shipping
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[Type Examination Certificate](#)



[Special Test Certificate](#)



Marine / Shipping	other
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[Confirmation](#)

#### Further information

**Siemens has decided to exit the Russian market (see here).**

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

**Siemens is working on the renewal of the current EAC certificates.**

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**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 (Manuals, Certificates, Characteristics, FAQs,...)**

<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, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RS2900-1AW30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS2900-1AW30&lang=en)

**Characteristic: Derating**

<https://support.industry.siemens.com/cs/ww/en/ps/3RS2900-1AW30/manual>



