

SRS2 TE Controller



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|--------------------|---|
| Application | control of solar and heating systems |
| Purpose | It controls 4 outputs (3 mech. relays, 1 optional either 0-1V or PWM) and features 4 inputs for temper. sensors |
| Code | 14 388 |

| | |
|----------------------|----------------------|
| Electric data | |
| Power voltage | 100 - 240 AVC |
| Power frequency | 50 - 60 Hz |
| Power input | 0.5 - 2.5 VA |
| Internal fuse | 2 A/250 V, slow-blow |
| IP rating | IP40 |
| Protection class | II |
| Overtoltage category | II by EN 60664-1 |
| Pollution degree | II by IEC 60664-1 |

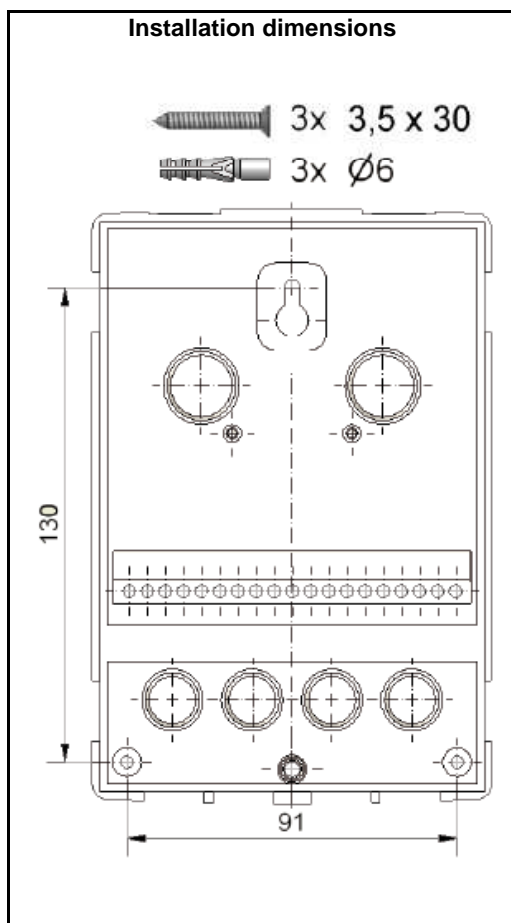
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|---------------------------|---------------------------------|
| Inputs and outputs | |
| Mechanical relay (R1, R2) | 460 VA for AC1/460 W for AC3 |
| Mechanical relay (R3) | 3000 VA for AC2/3000 W for AC3 |
| 0-10 V | load 10 kΩ, tolerance 10% |
| PWM | voltage 10 V, frequency 1 kHz |
| Pt1000 | temperature range -40 to 300 °C |
| LAN connection | CAN Bus |

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|-------------------------------------|----------------|
| Number of inputs and outputs | |
| Mechanical relay | 3 x (R1/R2/R3) |
| 0 -10 V or PWM | 1 x (V1) |
| Pt1000 | 4 x (S1 to S4) |

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|--|--------|
| Permissible cable lengths for sensors and outputs | |
| Mechanical relay | < 10 m |
| 0-10 V/PWM | < 3 m |
| Pt1000 (outdoor sens.) | < 30 m |
| Pt1000 (other sensors) | < 10 m |
| CAN Bus | < 3 m |

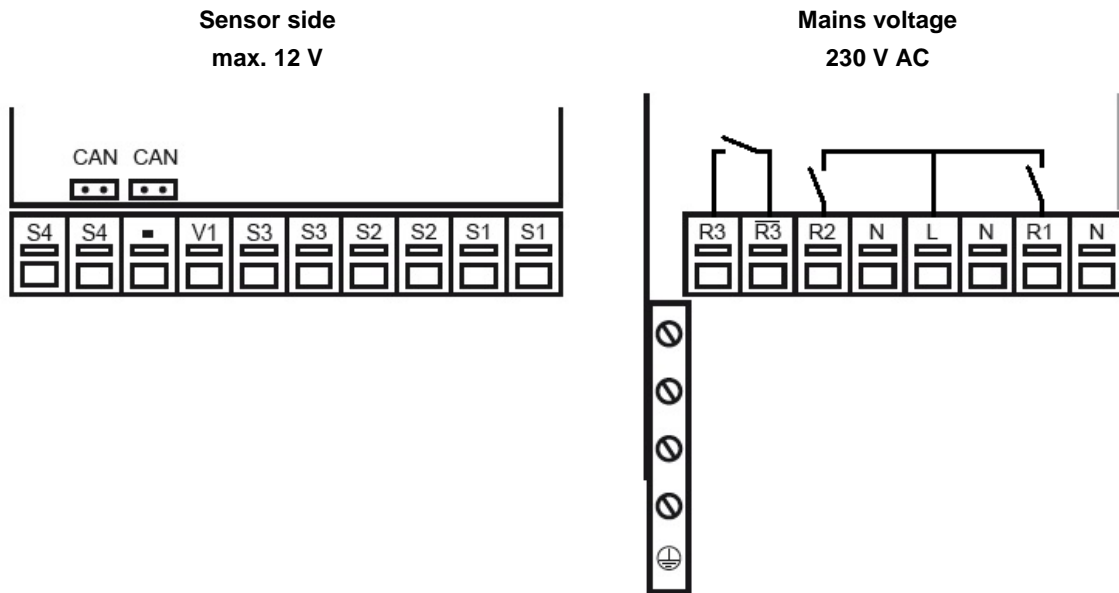
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|---------------------------------------|---------------------------|
| Permissible ambient conditions | |
| Ambient temper. - operation | 0 to 40 °C |
| Ambient temper. - stock | 0 to 60 °C |
| Air humidity - operation | max. 85 % at 25 °C |
| Air humidity - stock | no condensation permitted |

| | |
|--------------------|--|
| Other data | |
| Housing material | ABS (two-part) |
| Installation | wall mount |
| Overall dimensions | 163 x 110 x 52 mm |
| Display | fully graphic, 128 x 128 |
| Preset connections | 8 hydraulic variants for solar and heating systems |



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Terminal block wiring diagram



Board connection:

CAN1
CAN2

Terminal:

S4 (2x)
-
V1
S3 (2x)
S2 (2x)
S1 (2x)

Connection for:

CAN Bus connection
CAN Bus connection

Connection for:

sensor 4
0-10 V/PWM (ground)
0-10 V/PWM
sensor 3
sensor 2
sensor 1

Terminal:

R3
R3
R2
N
L
N
R1
N

Connection for:

potential-free switching contact
potential-free switching contact
live
neutral
mains voltage - live
mains voltage - neutral
live
neutral

Protective PE lead shall be wired to PE terminal board!

Correlation between temperature and resistance for Pt 1000 sensors

| °C | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|----|------|------|------|------|------|------|------|------|------|------|------|
| Ω | 1000 | 1039 | 1077 | 1116 | 1155 | 1194 | 1232 | 1270 | 1308 | 1347 | 1385 |