

# CM-TCS.21S



CM-TCS.21S Temperature monitoring relay Temp.-range -50...+50°C, 24VAC/DC

## General Information

Extended Product Type	CM-TCS.21S
Product ID	1SVR730740R9100
EAN	4016779852746
Catalog Description	CM-TCS.21S Temperature monitoring relay Temp.-range -50...+50°C, 24VAC/DC
Long Description	CM-TCS.21S Temperature monitoring relay Temp.-range -50...+50°C, 24VAC/DC Replacement for 1SVR630740R9100

## Ordering

EAN	4016779852746
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	97 mm
Package Level 1 Height	109 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Gross Weight	0.163 kg
Package Level 1 EAN	4016779852746

## Dimensions

Product Net Width	22.5 mm
Product Net Depth / Length	103.7 mm
Product Net Height	85.6 mm
Product Net Weight	0.138 kg

## Technical

Function	Overtemperature monitoring Undertemperature monitoring Over- and undertemperature monitoring 1 sensor circuit Short-circuit detection
Measuring Range	-50 ... +50 °C

Sensor Type	PT100
Rated Control Supply Voltage ( $U_s$ )	24 V AC/DC
Rated Frequency (f)	Supply Circuit 50 Hz Supply Circuit 60 Hz Supply Circuit DC
Output	2 x 1 c/o or 1 x 2 c/o contacts, configurable
Terminal Type	Screw Terminals
Rated Operational Current AC-12 ( $I_{\theta}$ )	(230 V) 4 A
Rated Operational Current AC-15 ( $I_{\theta}$ )	(230 V) 3 A
Rated Operational Current DC-12 ( $I_{\theta}$ )	(24 V) 4 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Measuring Circuit / Output Circuit 4 kV Output Circuit 1 / Output Circuit 2 4 kV Supply Circuit / Measuring Circuit 4 kV Supply Circuit / Output Circuit 4 kV
Rated Insulation Voltage ( $U_i$ )	Measuring Circuit / Output Circuit 300 V Output Circuit 1 / Output Circuit 2 300 V Supply Circuit / Measuring Circuit 300 V Supply Circuit / Output Circuit 300 V
Degree of Protection	Housing IP50 Terminals IP20
Overvoltage Category	III
Pollution Degree	3
Short-Circuit Protective Devices	Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	30000000 cycle
Connecting Capacity	Flexible with Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.5 ... 2.5 mm <sup>2</sup>
Tightening Torque	0.6 ... 0.8 N·m
Wire Stripping Length	8 mm
Mounting Position	Any
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Standards	CAN/CSA C22.2 No.14 EN 50581 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508

---

## Environmental

Ambient Air Temperature	Operation -40 ... +60 °C Storage -40 ... +85 °C
RoHS Status	Following EU Directive 2011/65/EU

---

## Technical UL/CSA

---

Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	B300
Connecting Capacity UL/CSA	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
Tightening Torque UL/CSA	7.08 in·lb

**Certificates and Declarations (Document Number)**

CCC Certificate	CCC_2018010303056014
cULus Certificate	cULus508_20170922-E140448
Data Sheet, Technical Information	2CDC112199D0201
Declaration of Conformity - CE	1SVD981015-0001
EAC Certificate	EAC_RU_C-DE.ME77.B.03424
Environmental Information	1SAA981015-2402
GL Certificate	GL_60466-13HH
Instructions and Manuals	1SVC730560M0000
RoHS Information	1SVD981015-0001

**Classifications**

Object Classification Code	B
ETIM 4	EC001446 - Temperature monitoring relay
ETIM 5	EC001446 - Temperature monitoring relay
ETIM 6	EC001446 - Temperature monitoring relay
ETIM 7	EC001446 - Temperature monitoring relay
eClass	7.0 27371810
E-Number (Sweden)	3860666

**Categories**

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Temperature Monitors

