

PRODUCT-DETAILS

# CM-TCS.21P

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



### General Information

Extended Product Type	CM-TCS.21P
Product ID	1SVR740740R9100
EAN	4016779852807
Catalog Description	CM-TCS.21P Temperature monitoring relay Temp.-range -50...+50°C, 24VAC/DC
Long Description	The CM-TCS.21P relay is from the CM temperature monitors range. This relay operates with a rated control supply voltage of 24 V AC / DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. The CM-TCS.21P is able to measure temperature with 1 sensor circuit using PT100 sensor. The CM-TCS.21P monitors overtemperature, undertemperature and window monitoring with 2 thresholds. The corresponding threshold values are adjustable. The temperature measuring range is -50..+50°C. A sealable transparent cover for protection against unauthorized changes is available as accessory. The device offers maintenance free Easy Connect Technology with push-in terminals.

### Ordering

EAN	4016779852807
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

Data Sheet, Technical Information	2CDC112199D0201
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Instructions and Manuals	1SVC730560M1001 1SVC730560M0001
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.127 kg

## Technical

Function	Overtemperature monitoring Undertemperature monitoring Over- and undertemperature monitoring
Measuring Range	-50 ... +50 °C
Sensor Type	PT100
Rated Control Supply Voltage (U <sub>s</sub> )	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	Screwless Terminals
Rated Operational Current AC-12 (I <sub>e</sub> )	(230 V) 4 A
Rated Operational Current AC-15 (I <sub>e</sub> )	(230 V) 3 A
Rated Operational Current DC-12 (I <sub>e</sub> )	(24 V) 4 A
Rated Operational Current DC-13 (I <sub>e</sub> )	(24 V) 2 A
Minimum Switching Capacity	24 V 10 mA
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 <sub>i</sub> )	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 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 2x 0.5 ... 1.5 mm <sup>2</sup>
Wire Stripping Length	8 mm
Mounting Position	1 ... 6
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.60947-5-1  
 IEC/EN 60255-26  
 IEC/EN 60255-27  
 IEC/EN 61000-6-2  
 IEC/EN 61000-6-3  
 IEC/EN 63000  
 UL 60947-5-1  
 IEC/EN 60947-5-1

**Technical UL/CSA**

Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	B300
Connecting Capacity UL/CSA	Flexible 2x 18-16 AWG Rigid 2x 20-16 AWG
Pilot Duty UL/CSA	B300

**Environmental**

Ambient Air Temperature	Operation -40 ... +60 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m
RoHS Status	Following EU Directive 2011/65/EU

**Certificates and Declarations (Document Number)**

CCC Certificate	CCC_2018010303056014
CQC Certificate	CQC2007010303243843
cULus Certificate	cULus60947-5-1_20170922-E140448
Declaration of Conformity - CCC	2020980303000196
Declaration of Conformity - CE	1SVD981015-00
Declaration of Conformity - UKCA	1SVD981015-10
DNV GL Certificate	DNV_GL_TAA000021M
EAC Certificate	EAC_RU_C-DE.ME77.B.03424
Instructions and Manuals	1SVC730560M1001 1SVC730560M0001
RoHS Information	1SVD981015-00

**Container Information**

Package Level 1 Units	box 1 piece
Package Level 1 Width	97 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Height	109 mm
Package Level 1 Gross Weight	0.152 kg
Package Level 1 EAN	4016779852807

**Classifications**

Object Classification Code	B
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ETIM 7	EC001446 - Temperature monitoring relay
ETIM 8	EC001446 - Temperature monitoring relay
ETIM 9	EC001446 - Temperature monitoring relay
eClass	V11.0 : 27371810
UNSPSC	39122331
E-Number (Finland)	2712327
E-Number (Sweden)	3860672

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## Categories

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

