



PRODUCT-DETAILS

CM-TCS.12S

CM-TCS.12S Temperature monitoring relay
Temp.-range 0...+100°C, 24-240VAC/DC



General Information	
Extended Product Type	CM-TCS.12S
Product ID	1SVR730740R0200
EAN	4016779852722
Catalog Description	CM-TCS.12S Temperature monitoring relay Temp.-range 0...+100°C, 24-240VAC/DC
Long Description	The CM-TCS.12S relay is from the CM temperature monitors range. This relay operates with a rated control supply voltage of 24 - 240 V AC / DC and has a 2 c/o (SPDT) output with contacts rated at 250 V / 4 A. The CM-TCS.12S is able to measure temperature with 1 sensor circuit using PT100 sensor. The CM-TCS.12S monitors overtemperature, undertemperature and window monitoring with 2 thresholds. The corresponding threshold values are adjustable. The temperature measuring range is 0...+100°C. A sealable transparent cover for protection against unauthorized changes is available as accessory. The device offers screw connection technology with double-chamber cage connection terminals.

Ordering	
EAN	4016779852722
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112199D0201
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	0.151 kg

Technical

Function	Overtemperature monitoring Undertemperature monitoring Over- and undertemperature monitoring
Measuring Range	0 ... +100 °C
Sensor Type	PT100
Rated Control Supply Voltage (U _s)	24 ... 240 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 _e)	(230 V) 4 A
Rated Operational Current AC-15 (I _e)	(230 V) 3 A
Rated Operational Current DC-12 (I _e)	(24 V) 4 A
Rated Operational Current DC-13 (I _e)	(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 ²

	Flexible with Ferrule 2x 0.5 ... 1.5 mm ²
	Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm ²
	Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm ²
	Flexible 1x 0.5 ... 2.5 mm ²
	Flexible 2x 0.5 ... 1.5 mm ²
	Rigid 1x 0.5 ... 4 mm ²
	Rigid 2x 0.5 ... 2.5 mm ²
Tightening Torque	0.6 ... 0.8 N·m
Wire Stripping Length	8 mm
Recommended Screw Driver	0.8 x 4 4.5 Pozidriv 1
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 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
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

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Information	1SVD981001-4401
RoHS Status	Following EU Directive 2011/65/EU
SCIP	c35e0922-bf8f-40f4-af52-908f5ca16877 Germany (DE)
Simplified SCIP	dbbb3748-eec3-47e5-9798-3771b520dc0b Germany (DE) 15f8aa71-074e-46c5-9724-14657f3c2cd0 France (FR) d940a2fe-24d9-42e4-8545-1ed375bab071 Germany (DE) 6e386912-7231-4137-a6d3-133149e73258 Portugal (PT) dc8222b7-0216-4ae1-a3b7-9386c879a875 Poland (PL) a02243d2-af15-4aa0-9818-8b2530167e76 Norway (NO) da8017cd-d223-405a-b947-9eb1272bb7f3 Estonia (EE)

	9d0aa0a1-dca3-4678-a832-923c8d02138f Greece (GR)
	5d2f2b94-ac61-4c0a-a794-f50796401a50 Bulgaria (BG)
	b4d8682d-32f3-4f2f-a35c-e21fb9713b75 Sweden (SE)
	7a999fb0-1d7a-4f65-b7d0-61ed88758d8e Hungary (HU)
	01b3989f-803f-4e7d-b89c-9e5fd18e3daa Poland (PL)
	d3ac305f-7853-4087-bf70-0f55dacc30b6 Sweden (SE)
	9c9def3d-d867-433c-8d8a-0cc647c8da08 France (FR)
	4c4d0473-2d00-4035-b646-86541be2fce3 Germany (DE)
	c2ed53c3-7b53-4e68-94a8-b9552c1fd579 Denmark (DK)
	1c25ff6b-1711-43d1-848b-b3ef863e0da2 Italy (IT)
	2d8e0c80-a367-4c7d-a372-68732cf75a6d Finland (FI)
	24ff094c-a50c-4a8c-a9e0-97122bce656f Belgium (BE)
	0c9567a1-c127-47a9-b08b-d496817283cf Czech Republic (CZ)
	4c50ee0a-f200-465d-97d4-1c4463084282 Croatia (HR)
	32bf5505-0fbf-4259-a42b-1b1ff1d5ce68 Netherlands (NL)
	7f681fcf-e08f-426e-8585-f0bb40ef58de Poland (PL)
	01730b7a-3bc5-43a2-9925-69598ad54b12 Belgium (BE)
	39973532-b4d3-499e-9f86-c17afe952556 Germany (DE)
	dc74b646-edb5-4d3d-bed8-61d6a53c530e Spain (ES)
	0ceedf67-561b-4ea1-b706-03ec2ea7b10f Hungary (HU)
Toxic Substances Control Act - TSCA	2CMT2023-006536

Circular Value

End of Life Instructions	1SAC200290H0001
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Certificates and Declarations

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

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	0.176 kg
Package Level 1 EAN	4016779852722

Classifications

Object Classification Code	B
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)	2712324
E-Number (Sweden)	3860664

Categories

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

