

CMS-10R-DA/DC12-48V-Z2

6 digital/analogue inputs | 4 CO outputs | 10 ... 48 V DC



Power supply

Nominal operating voltage	10 ... 48 V DC
Maximum power consumption	6 W
Typical power consumption (without any output set)	< 1 W
Additional power consumption per output	0.45 W

Inputs

Number of analogue voltage / digital inputs	6
Maximal voltage digital inputs	48 V DC
Logic level "1" digital inputs	> 6.0 V DC
Logic level "0" digital inputs	< 4.0 V DC
Nominal range analogue voltage inputs	0 ... 10 V, Compliant with IEC 60381-2
Voltage input impedance	196 kΩ
Resolution of analogue inputs	12 Bit
Measurement category	2
Sampling rate per channel	10 Hz

Outputs

Number of relay outputs	4
Type of terminal	CO
Contact material	AgNi
Rated voltage	250 V AC
Maximum switching voltage	400 V AC
Recommended minimum load	10 mA, 12 V
Rated current AC-1	10 A
Rated load AC-1	3 kVA
Rated load DC	see fig. 2
Inrush current	80 A, 20 ms
Electrical endurance at rated load AC-1 (cycles)	> 30 000

Communication

eSIM	Embedded
Communication Standards	E-GSM (2G), E-UTRA (3G), LTE (4G)
Frequency bands Z1	E-GSM: B2, B3, B5, B8 E-UTRA: B1, B2, B4, B5, B6, B8, B19 LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28 LTE-TDD: B38, B39, B40, B41
Coverage Z1	Worldwide
Frequency bands Z2	E-GSM: B3, B8 E-UTRA: B1, B8 LTE-FDD: B1, B3, B7, B8, B20, B28A
Coverage Z2	Europe, Middle East, Africa, South Korea, Thailand
Antenna connector type	SMA female
Antenna impedance	50 Ω
Antenna return loss	> 10 dB
Antenna jack torque (max)	1 Nm

Insulation

Insulation type	Reinforced
Insulation rating between all ports	2 kV / 1 min
Pollution degree	2
Overvoltage category	II
Rated impulse voltage	2.5 kV / 1 min
Shock/vibration proof	IEC 61373

General data

Operation	Type 1 (IEC 60730-1)
Software class	Class A (IEC 60730-1)
Classification	Manual Control (IEC 60730-1)

Housing and environmental conditions

Storage temperature (no ice)	-40 ... 85 °C / -40 ... 185 °F
Operation temperature	-25 ... 70 °C / -13 ... 158 °F
Relative humidity, no condensation	10 ... 95 %
Ingress Protection	IP 40
Weight	260 g
Housing material	PA
Operation Altitude	Max. 2 000 m / 6 562 ft over sea level (without derating)
Mounting	DIN Rail (IEC 60715) and Panel mount
Operation Position	any
Dimensions	see fig. 3



fig. 1. Wiring diagram

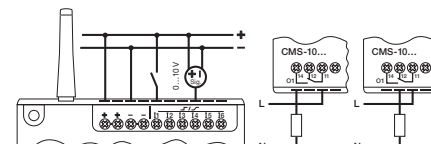


fig. 2. Max. breaking capacity RZ

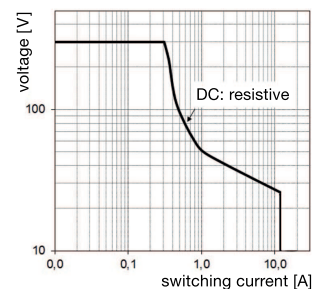
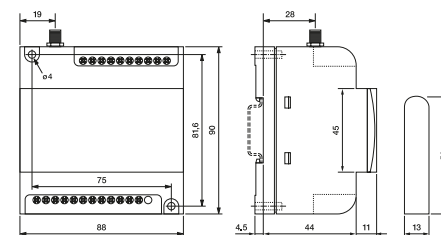


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards CISPR 32 / EN 55032; ETSI EN 301511; ETSI EN 301908-1/-2/-13; IEC/EN/BSI/AS/NZS/SANS 62368; IEC/EN/BSI/UL/CSA 60730; IEC 60381-1/-2; IEC 61000-6-2/-3; IEC 62368-1

Approvals

CMS-10R-DA/DC12-48V-Z2
6 digital/analogue inputs | 4 CO outputs | 10 ... 48 V DC



Table with 2 columns: Control parameter and Value. Rows include Contact type control, Conductor cross section control, Stripping Length control, Nominal screw torque control, Screwdrive control, Max. wire count control, and Dual sleeve control.

Table with 3 columns: Description, Type, and a reference code. Row 1: Messaging System, CMS-10R-DA/DC12-48V-Z2, 12-48.

“...” List control circuit voltage to complete product references. I For customized kits please contact support.

Table with 2 columns: Included Accessories and Value. Row 1: Antennas for indoor use, CMS-ANT-STUB/INT-50MM.

Table with 2 columns: Optional Accessories and Value. Rows include Antennas for indoor/outdoor use, Antenna connector/cables, Power supply, and various sensors.



fig. 1. Wiring diagram

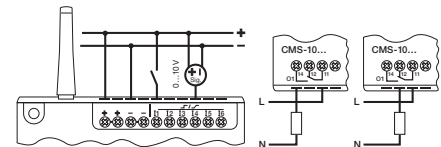


fig. 2. Max. breaking capacity RZ

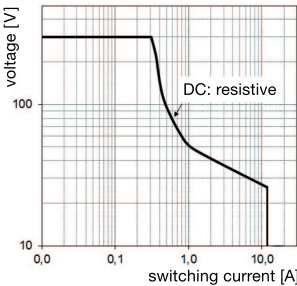
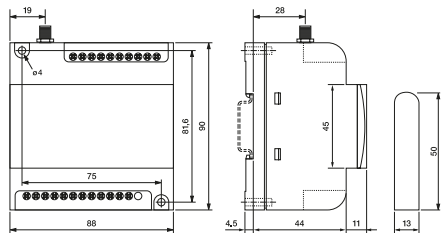


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards CISPR 32 / EN 55032; ETSI EN 301511; ETSI EN 301908-1/-2/-13; IEC/EN/BSI/AS/NZS/SANS 62368; IEC/EN/BSI/UL/CSA 60730; IEC 60381-1/-2; IEC 61000-6-2/-3; IEC 62368-1
Approvals CE UK CA