## **DATASHEET - EASY512-DA-RCX**



Control relay, 12 V DC, 8DI(2AI), 4DO relays, time

EASY512-DA-RCX Part no.

Catalog No. 274107

**EL-Nummer** (Norway)

4519756



## **Delivery program**

Desir function		
Basic function		easy500
Description		Stand alone customized laser inscription or delivery with user program possible with EASY-COMBINATION-* product (article No. 2010781)
Inputs		
Digital		8
of which can be used as analog		2
Outputs		
Quantity of outputs		Relays: 4
Outputs	Num	ber 4
Additional features		
Real time clock		#
Supply voltage		12 V DC
Software		EASY-SOFT-BASIC/-PRO
Connection type		screw terminal

Technical data General			
Standards			EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27
Approvals			CSA UL EAC
Dimensions (W x H x D)		mm	71.5 x 90 x 58 (4 PE)
Weight		kg	0.2
Mounting			Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Terminal capacities			
Solid		$\mathrm{mm}^2$	0.2/4 (AWG 22 - 12)
Flexible with ferrule		mm <sup>2</sup>	0.2/2.5 (AWG 22 - 12)
Standard screwdriver		mm	0.8 x 3.5
Max. tightening torque		Nm	0.6
Climatic environmental conditions			
Operating ambient temperature		°C	In accordance with IEC 60068-2-1, -25 - +55
Condensation			Take appropriate measures to prevent condensation
Storage	θ	°C	-40 - +70
relative humidity		%	in accordance with IEC 60068-2-30, IEC 60068-2-78 5 - 95
Air pressure (operation)		hPa	795 - 1080
Ambient conditions, mechanical			
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations		Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	1
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			III/2
Electrostatic discharge (ESD)			

applied standard			according to IEC EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	10
Radio interference suppression			EN 55011 Class B, EN 55022 Class B
Burst		kV	according to IEC/EN 61000-4-4 Supply cables: 2 Signal cables: 2
power pulses (Surge)			according to IEC/EN 61000-4-5 1 kV (supply cables, symmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
Clearance in air and creepage distances			EN 50178, UL 508, CSA C22.2, No. 142
Insulation resistance			EN 50178
Back-up of real-time clock			
Back-up of real-time clock			
			Backup time (hours) with fully charged double layer capacitor     Service life (years)
Accuracy of real-time clock to inputs		s/day	typ. $\pm 2 (\pm 0.2 \text{ h/Year})$
			depending on ambient air temperature fluctuations of up to $\pm5$ s/day ( $\pm0.5$ h/year) are possible
Repetition accuracy of timing relays			are possible
Accuracy of timing relays (of values)		%	±1
Resolution			
Range "S"		ms	10
Range "M:S"		s	1
Range "H:M"		min	1
Retentive memory			
Write cycles of the retentive memory			1000000 (10 <sup>6</sup> )
Power supply			
Rated operational voltage	U <sub>e</sub>	V	12 DC (-15/+30%)
Permissible range	U <sub>e</sub>		10.2 - 15.6 V DC
Residual ripple		%	<b>≦</b> 5
Input current			normally 140 mA at U <sub>e</sub>
Voltage dips		me	≤ In accordance with IEC 61131-2
voitage uips		ms	≤ 10
Fuse		Α	≧ 1A (T)
Power loss	Р	W	Normally 2
Digital inputs 12 V DC			
Number			8
Inputs can be used as analog inputs			2 (17,18)
Status Display			LCD-Display
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no
Rated operational voltage	U <sub>e</sub>	V DC	12
Input voltage		V DC	Signal 0: ≦ 4 Signal 1: ≧ 8
Input current at signal 1		mA	11 - I6: 3.3 (at 12 V DC) 17, I8: 1.1 (at 12 V DC)
Deceleration time		ms	20 (0 -> 1/1 -> 0, Debounce ON) normally 0.3 (0 -> 1/1 -> 0, Debounce OFF, I1 - I6) normally 0.35 (0 -> 1, Debounce OFF, I7, I8) normally 0.15 (1 -> 0, Debounce OFF, I7, I8)
Cable length		m	100 (unshielded)
Frequency counter			
Number			2 (13, 14)
Counter frequency			
ounter requestory		kHz	≦1
Pulse shape		kHz	≦ 1 Square

Pulsa nausa ratio			1.1
Pulse pause ratio			1:1
Cable length		m	≤ 20 (screened)
Rapid counter inputs			
Number			2 (11, 12)
Cable length		m	≤ 20 (screened)
Counter frequency		kHz	≦1
Pulse shape			Square
Analog inputs			0 (IT 10)
Number			2 (17, 18)
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to interface/memory card: no
Input type			DC voltage
Signal range			0-10 V DC
Resolution			0.01 V analog 0.01 V digital 10 Bit (value 0 - 1023)
Input impedance		kΩ	11.2
Accuracy of actual value			
two devices from series		%	±3
Within a single device		%	± 2, (I7, I8, I11, I12) ± 0.12 V
Conversion time, analog/digital		ms	Input delay ON: 20; Input delay OFF: each cycle time
Input current		mA	<1
Cable length		m	≦ 30, screened
Relay outputs			
Number			4
Outputs in groups of			1
Parallel switching of outputs for increased output			Not permissible
Protection of an output relay			Miniature circuit-breaker B16 or fuse 8 A (slow)
Potential isolation			from power supply: yes From the inputs: yes Safe isolation according to EN 50178: 300 V AC Basic isolation: 600 V AC
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	10
		X 10	10
Contacts		X 10	
Contacts  Conventional thermal current (10 A UL)		A	8
Conventional thermal current (10 A UL)		A	8
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC		A mA	8 > 500
Conventional thermal current (10 A UL) Recommended for load: 12 V AC/DC Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A		A mA A	8 > 500 16
Conventional thermal current (10 A UL) Recommended for load: 12 V AC/DC Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A Rated impulse withstand voltage $U_{imp}$ of contact $coil$	U <sub>o</sub>	A mA A kV	8 > 500 16 16 6
Conventional thermal current (10 A UL)   Recommended for load: 12 V AC/DC   Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A   Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A   Rated impulse withstand voltage $U_{imp}$ of contact $coil$ Rated operational voltage	U <sub>e</sub>	A mA A kV V AC	8 > 500 16 16 6 250
Conventional thermal current (10 A UL) Recommended for load: 12 V AC/DC Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A Rated impulse withstand voltage $U_{imp}$ of contact $coil$ Rated operational voltage Rated insulation voltage	U <sub>e</sub>	A mA A kV V AC V AC	8 > 500 16 16 6 250 250
Conventional thermal current (10 A UL)   Recommended for load: 12 V AC/DC   Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A   Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A   Rated impulse withstand voltage $U_{imp}$ of contact $coil$ Rated operational voltage		A mA A kV V AC	8 > 500 16 16 6 250
Conventional thermal current (10 A UL) Recommended for load: 12 V AC/DC Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A Rated impulse withstand voltage $U_{imp}$ of contact $coil$ Rated operational voltage Rated insulation voltage		A mA A kV V AC V AC	8 > 500 16 16 6 250 250 250 300 between coil and contact
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178		A mA A kV V AC V AC	8 > 500 16 16 6 250 250 250 300 between coil and contact
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity	Ui	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)	U <sub>i</sub> Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)	U <sub>i</sub> Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity	U <sub>i</sub> Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts 300000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)	U <sub>i</sub> Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts 300000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)	U <sub>i</sub> Operations Operations Operations	A mA A kV V AC V AC	8 > 500  16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)	U <sub>i</sub> Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 250 300 between coil and contact 300 between two contacts  300000 200000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC	U <sub>i</sub> Operations Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000 250000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC  500 W at 115/120 V AC	U <sub>i</sub> Operations Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000 250000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 0ps./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC  500 W at 115/120 V AC	U <sub>i</sub> Operations Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000 250000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \varphi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \varphi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC15, 250 V AC, 3 A (600 ops./h)  DC-13, $L/R \le 150$ ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 0ps./h)  DC-13, $L/R \le 150$ ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC  500 W at 115/120 V AC  Fluorescent lamp load  Fluorescent lamp load 10 x 58 W at 230/240 V AC	U <sub>i</sub> Operations Operations Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000 25000
Conventional thermal current (10 A UL)  Recommended for load: 12 V AC/DC  Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A  Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A  Rated impulse withstand voltage $U_{imp}$ of contact coil  Rated operational voltage  Rated insulation voltage  Safe isolation according to EN 50178  Making capacity  AC—15, 250 V AC, 3 A (600 ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Breaking capacity  AC-15, 250 V AC, 3 A (600 Ops./h)  DC-13, L/R $\leq$ 150 ms, 24 V DC, 1 A (500 S/h)  Filament bulb load  1000 W at 230/240 V AC  500 W at 115/120 V AC  Fluorescent lamp load  Fluorescent lamp load 10 x 58 W at 230/240 V AC  With upstream electrical device	Operations Operations Operations Operations Operations Operations Operations	A mA A kV V AC V AC	8 > 500 16 16 16 6 250 250 300 between coil and contact 300 between two contacts  300000 200000 25000 25000

Switching frequency			
Mechanical operations		x 10 <sup>6</sup>	10
Switching frequency		Hz	10
Resistive load/lamp load		Hz	2
Inductive load		Hz	0.5
UL/CSA			
Uninterrupted current at 240 V AC		Α	10
Uninterrupted current at 24 V DC		Α	8
AC			
Control Circuit Rating Codes (utilization category)			B 300 Light Pilot Duty
Max. rated operational voltage		V AC	300
max. thermal continuous current cos $\phi$ = 1 at B 300		Α	5
max. make/break cos φ ≠ capacity 1 at B 300		VA	3600/360
DC			
Control Circuit Rating Codes (utilization category)			R 300 Light Pilot Duty
Max. rated operational voltage		V DC	300
Max. thermal uninterrupted current at R 300		Α	1
Max. make/break capacity at R 300		VA	28/28
Supply voltage U <sub>Aux</sub>			
Power loss	P	W	2

# Design verification as per IEC/EN 61439

booign vormoution do por 120,211 or 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.

## **Technical data ETIM 7.0**

DLOL /F0000004\/ /		
PLC's (EG000024) / Logic module (EC001417)		N. ( )
Electric engineering, automation, process control engineering / Control / Programmable logi		
Supply voltage AC 50 Hz	V	0-0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	10.2 - 15.6
Voltage type of supply voltage		DC
Switching current	Α	8
Number of analogue inputs		2
Number of analogue outputs		0
Number of digital inputs		8
Number of digital outputs		4
With relay output		Yes
Number of HW-interfaces industrial Ethernet		0
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With optical interface		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
Redundancy		No

With display		No
Degree of protection (IP)		IP20
Basic device		Yes
Expandable		No
Expansion device		No
With timer		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		None
SIL according to IEC 61508		None
Performance level acc. EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	71.5
Height	mm	90
Depth	mm	58

## Approvals

Product Standards	IEC/EN see Technical Data; UL 508; CSA C22.2 No. 142-M1987; CSA C22.2 No. 213-M1987; CE marking
UL File No.	E135462
UL Category Control No.	NRAQ
CSA File No.	012528
CSA Class No.	2252-01 + 2258-02
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -

## **Dimensions**

