Control relays, Expandable, networkable (Ethernet), 12/24 V DC, 24 V AC, Digital: 8, of which can be used as analog: 4, Quantity of outputs: Relay: 4, screw terminal



EASY-E4-UC-12RC1 Part no.

Catalog No. 197211

EL-Nummer (Norway)

4500546

Delivery program

Electronic control relay Rated operating voltage 12V DC, 24V DC or 24V AC 8 digital inputs with 12 VDC, 24 VDC or 24 VAC of these, 4 inputs can also be used as analog inputs and 4 inputs as fast counters 4 relay outputs for 12–250 VAC or 12–240 VDC with displaying lead-time clock with Ethernet interface Expandable with the easyE4 series of digital input/output expansions with easy-E4- CONENTCI connector (tem Y7-197225) Expandable with communications modules EASY-COM Screw terminals Digital 6 8 6 1 6 which can be used as analog Outputs Quantity of outputs Additional features Real time clock Display & keypad Expansions Real time clock Display & keypad Expansions Sorteware Expandable networkable (Ethernet) 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	Delivery program	
Real time clock Quantity of outputs Real time clock Resal time communications modules EASY-COM Resal time communications modules EASY-COM Resal time communications modules EASY-COM Resal time comm	Basic function	easyE4 base device
Digital of which can be used as analog Outputs Quantity of outputs Additional features Real time clock Display & keypad Expansions Expansions Supply voltage Software Base in the control of the	Description	Rated operating voltage 12V DC, 24V DC or 24V AC 8 digital inputs with 12 VDC, 24 VDC or 24 VAC of these, 4 inputs can also be used as analog inputs and 4 inputs as fast counters 4 relay outputs for 12–250 VAC or 12–240 VDC with display Real-time clock with Ethernet interface Expandable with the easyE4 series of digital input/output expansions with easy-E4-CONNECT1 connector (Item Y7-197225) Expandable with communications modules EASY-COM
Outputs Quantity of outputs Additional features Real time clock Display & keypad Expansions Supply voltage Software Additional features Relay: 4 Expandable networkable (Ethernet) 12/24 V DC 24 V AC EASYSOFT-SWLIC/easySoft 7	Inputs	
Outputs Quantity of outputs Additional features Real time clock Display & keypad Expansions Expandable networkable (Ethernet) Supply voltage Software EASYSOFT-SWLIC/easySoft 7	Digital	8
Quantity of outputs Relay: 4 Additional features # Real time clock # Display & keypad # Expansions Expandable networkable (Ethernet) Supply voltage 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	of which can be used as analog	4
Real time clock Display & keypad Expansions Supply voltage Software # Expandable networkable (Ethernet) 12/24 V DC 24 V AC EASYSOFT-SWLIC/easySoft 7	Outputs	
Real time clock Display & keypad # Expansions Expandable networkable (Ethernet) Supply voltage 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	Quantity of outputs	Relay: 4
Display & keypad # Expansions Expandable networkable (Ethernet) Supply voltage 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	Additional features	
Expansions Expandable networkable (Ethernet) Supply voltage 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	Real time clock	#
networkable (Ethernet) Supply voltage 12/24 V DC 24 V AC Software EASYSOFT-SWLIC/easySoft 7	Display & keypad	#
24 V AC Software EASYSOFT-SWLIC/easySoft 7	Expansions	
	Supply voltage	
Connection type screw terminal	Software	EASYSOFT-SWLIC/easySoft 7
	Connection type	screw terminal

Technical data

General

delicial		
Standards		EN 61000-6-2 EN 61000-6-3 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-30 IEC/EN 61131-2 EN 61010 EN 50178
Approvals		
Approvals		cULus
certificate		CE
shipping classification		DNV GL
Dimensions (W x H x D)	mm	71.5 x 90 x 58
Weight	kg	0.215
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Connection type		screw terminal
Ethernet		
Connections		RJ45 plug, 8-pin
Cable		CAT5
Terminal capacities		

Screw terminals

0.11			
Solid		mm ²	0.2 - 4
flexible		mm^2	0.2 - 2.5
Solid or flexible conductor, with ferrule		mm ²	0,2 - 2,5
Solid or stranded		AWG	22 - 12
Standard screwdriver		mm	0.8 x 3.5
Tightening torque		Nm	0.5 - 0.7
Stripping length		mm	6.5
Display			
Display - Type			Monochrome
Lines x characters			6 x 16
Climatic environmental conditions			
Operating ambient temperature		°C	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2
Condensation			Take appropriate measures to prevent condensation
LCD display (clearly legible)		°C	0 - 55
Storage	9	°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	0.3
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Overvoltage category/pollution degree			III/2
Electrostatic discharge (ESD)			
applied standard			nach IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	0.08 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 61000-6-3 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) 2 kV (supply cables, asymmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		٧	10
Insulation resistance			
Clearance in air and creepage distances			nach EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Insulation resistance			per EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
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 the real-time clock		s/day	typ. \pm 2 (\pm 0.2 h/Year) depending on ambient air temperature fluctuations of up to \pm 5 s/day (\pm 0.5 h/year)
			are possible
Repetition accuracy of timing relays		0/	.000
Accuracy of timing relays (of values)		%	± 0.02
Resolution			
Range "S"		ms	5
Range "M:S"		S	1
Range "H:M"		min	1

Power supply

rower supply			
Rated operational voltage	U _e	V	12/24 DC (-15/+20%) 24 AC (-15/+10%)
Permissible range	U _e		10.2 - 28.8 V DC 20.4 - 26.4 V AC
Residual ripple		%	≦ 5
Protection against polarity reversal			yes
Frequency		Hz	50/60 (± 5%)
Input current			max. 200 mA at 12 V DC max. 125 mA at 24 V DC
Voltage dips		ms	≤ 20 ms at 24 V AC 10 ms at 24 V DC 1 ms at 12 V DC
Fuse		Α	≥ 1A (T)
Power loss	Р	W	Normally 3
Heat dissipation at 24 V DC		W	3
Digital inputs 12 V DC Number			8
Status Display			LCD-Display
Potential isolation			from power supply: no to the memory card: no to Ethernet: yes between inputs: no from the outputs: yes to expansion devices: yes
Rated operational voltage	U _e	V DC	12
Input voltage		V DC	Condition 0: ≤ 5 (I1 - I8) Condition 1: ≥ 8 (I1 - I8)
Input current at signal 1		mA	1.75 mA (I1 - I4) 0.9 mA (I5 - I8)
Deceleration time		ms	20 (0 -> 1/1 -> 0, Debounce ON) type 0.015 (0 -> 1/1 -> 0, Debounce OFF)
Cable length		m	100 (unshielded)
Frequency counter			
Note			Notes on this, see under Digital inputs 24 V DC
Incremental counter			
Note			Notes on this, see under Digital inputs 24 V DC
Rapid counter inputs			
Note			Notes on this, see under Digital inputs 24 V DC
Digital inputs 24 V DC			
Number			8
Inputs can be used as analog inputs			4 (15, 16, 17, 18)
Status Display			LCD-Display
Potential isolation			from power supply: no to the memory card: no to Ethernet: yes between inputs: no from the outputs: yes to expansion devices: yes
Rated operational voltage	U _e	V DC	24
Input voltage		V DC	Signal 0: ≦ 5 (I1 - I8) Condition 1: ≧ 15 (I1 - I8)
Input current at signal 1		mA	3.3 (1 - 4) 1.8 (5 - 8)
Deceleration time		ms	20 (0 -> 1/1 -> 0, Debounce ON) type 0.015 (0 -> 1/1 -> 0, Debounce OFF)
Cable length		m	100 (unshielded)
Frequency counter			
Number			4 (11, 12, 13, 14)
Counter frequency		kHz	≦5
Pulse shape			Square
Pulse pause ratio			1:1
Cable length		m	≦ 20 (screened)
Incremental counter			

Number of counter inputs			2 (11 + 12, 13 + 14)
			-2147483648 to +2147483647
Value range		kHz	
Counter frequency		КПZ	≦5 Causas
Pulse shape			Square
Signal offset			90°
Pulse pause ratio			1:1
Cable length		m	≤ 20 (screened)
Rapid counter inputs			
Number			4 (11, 12, 13, 14)
Value range			-2147483648 to +2147483647
Counter frequency		kHz	≦ 10
Pulse shape			Square
Pulse pause ratio			1:1
Cable length		m	≦ 20 (screened)
Digital inputs 24 V AC			
Number			8
Status Display			LCD-Display
Potential isolation			from power supply: no to the memory card: no
			to Ethernet: yes
			between inputs: no from the outputs: yes
			to expansion devices: yes
Rated operational voltage	U _e	V AC	24
Input voltage (AC = sinusoidal)	U _e	V	Status 0: ≦ 5 (11 - 18)
Detailforman		11-	Condition 1: ≥ 14 (I1 - I8)
Rated frequency		Hz	50/60
Input current at signal 1		mA	11 - 14: 3.5 (at 24 VAC/DC) 15 - 18: 1.8 (at 24 VAC/DC)
Deceleration time		ms	45/38 (0 -> 1/1 -> 0, debounce ON 50/60Hz)
			type 25/21 (0 - > 1/1 -> 0, debounce OFF 50/60Hz)
Cable length		m	40 (unshielded)
Analog inputs			4//5 10 17 10
Number			4 (15, 16, 17, 18)
Potential isolation			from power supply: no to the memory card: no
			to Ethernet: yes between inputs: no
			from the outputs: yes
In the second se			to expansion devices: yes DC voltage
Input type			
Signal range			-
D. J.C.			0-10 V DC
Resolution		1.0	0-10 V DC 12 Bit (value 0 - 4095)
Input impedance		kΩ	0-10 V DC
Input impedance Accuracy of actual value			0-10 V DC 12 Bit (value 0 - 4095) 13.3
Input impedance Accuracy of actual value two devices from series		%	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V
Input impedance Accuracy of actual value two devices from series Within a single device		%	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital		% % ms	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V each CPU cycle
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current		%	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length		% % ms	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V each CPU cycle
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≤ 30, screened
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3 , ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1 Not allowed
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation according to EN 50178: 300 V AC
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle <1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation according to EN 50178: 300 V AC Basic isolation: 600 V AC from power supply: yes
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle <1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation according to EN 50178: 300 V AC Basic isolation 600 V AC from power supply: yes From the inputs: yes between outputs: yes
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation: 600 V AC from power supply: yes From the inputs: yes between outputs: yes to Ethernet: yes
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay Potential isolation		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle <1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation according to EN 50178: 300 V AC Basic isolation 600 V AC from power supply: yes From the inputs: yes between outputs: yes
Input impedance Accuracy of actual value two devices from series Within a single device Conversion time, analog/digital Input current Cable length Relay outputs Number Outputs in groups of Parallel switching of outputs for increased output Protection of an output relay		% % ms mA	0-10 V DC 12 Bit (value 0 - 4095) 13.3 ± 3, ± 0.12 V ± 2, ± 0.12 V each CPU cycle < 1 ≦ 30, screened 4 1 Not allowed Miniature circuit-breaker B16 or slow-blow 8 A fuse Safe isolation: 600 V AC from power supply: yes From the inputs: yes between outputs: yes to Ethernet: yes

Recommended for load: 12 V AC/DC		mA	> 500
Rated impulse with stand voltage \mathbf{U}_{imp} of contact coil		kV	6
Rated operational voltage	U _e	V AC	240
Rated insulation voltage	Ui	V AC	240
Safe isolation according to EN 50178		V AC	300 between coil and contact 300 between two contacts
Making capacity			
AC15, 250 V AC, 3 A (600 ops./h)	Operations		300000
DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
Breaking capacity			
AC-15, 250 V AC, 3 A (600 Ops./h)	Operations		300000
DC-13, L/R ≦ 150 ms, 24 V DC, 1 A (500 S/h)	Operations		200000
Filament bulb load			
1000 W at 230/240 V AC	Operations		25000
500 W at 115/120 V AC	Operations		25000
Fluorescent lamp load			
Fluorescent lamp load 10 x 58 W at 230/240 V AC			
With upstream electrical device	Operations		25000
Uncompensated	Operations		25000
Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated	Operations		25000
Switching frequency			
Mechanical operations		x 10 ⁶	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 ϕ = 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
Ethernet			
Data transfer rate		Mbit/s	10/100
Connections			RJ45 plug, 8-pin
Cable			CAT5

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	3
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.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / Logic module (EC001417)			
Electric engineering, automation, process control engineering / Control / Program	mmable logic control (S	SPS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])	
Supply voltage AC 50 Hz	V	85 - 264	
Supply voltage AC 60 Hz	V	85 - 264	
Supply voltage DC	V	10.2 - 28.8	
Voltage type of supply voltage		AC/DC	
Switching current	Α	8	
Number of analogue inputs		0	
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		1	
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		0	
With optical interface		No	
Supporting protocol for TCP/IP		Yes	
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		Yes	
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 protect for SHIDOS Supporting protect for SHIDOS Supporting protect for SHIDOS Supporting protect for EtherNatilP Supporting protect for A-Interface Safety at Work Supporting protect for Interfacilistic Safety Supporting protect for Shift Safety Supporting protect of For Shift Safety Supporting protect for Shift Safety Supporting protect of For Shift Safety Supporting protect Safety Supporting prot	Supporting protocol for PROFINET CBA		No
Supporting protocol for Foundation Fieldbus Na Supporting protocol for EtherHerP Na Supporting protocol for EtherHerP Na Supporting protocol for Device.Net Safety Na Supporting protocol for No Pice Rush Safety Na Supporting protocol for PROFISARIS Na Supporting protocol for PROFISARIS Na Supporting protocol for Other bus systems Na Redio standard Blustorth Na Redio standard WH-ROLL Na Redio standard Sale Na Se			
Supporting protocol for EAI-markare Saleva t Work No Supporting protocol for EAI-markare Saleva t Work No Supporting protocol for INTERBUS-Salety No Supporting protocol for FNERBUS-Salety No Supporting protocol for SaletyBUS PA No Supporting protocol for SaletyBUS PA No Supporting protocol for SaletyBUS PA No Radio standard GINteroth PA No Radio standard GINteroth PA No Radio standard GINT No No Radio standard GINT No No Radio standard GINT No No Reduct standard GINT Yes Yes Reduct standard GINT Yes Yes Respect device Yes Yes Respect device No No <	•		
Supporting protected for All-interface Safety at Work Mo Supporting protected for Device Name Safety No Supporting protected for PBDFlaste No Supporting protected for Safety BUS på No Radio standard Bluetoth No Radio standard Bluetoth No Radio standard Bluetoth No Radio standard SM No Radio standard SMS No Reduct standard SMS No			
Supporting protect for INTERBUS Satery 10 Supporting protect for INTERBUS Satery 10 Supporting protect for Satery BUS p 10 Supporting protect for Satery BUS p 10 Supporting protect for Satery BUS p 10 Radio standard Bustooth 10 Radio standard Bustooth 10 Radio standard SM 10 Redundancy 10 Redundancy 10 Redundancy 10 Redundancy 10 Reparation Service 10 Reparation Service 10 Reparation Service 10 Radio satery fac			
Supporting protocol for NTERBUS-Safety No Supporting protocol for PADFIsafe 10 Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Radio standard Bustooth 10 Radio standard Bustooth 10 Radio standard GPRS No Radio standard GPRS No Radio standard GSM No Rediot standard GSM Ye Rediot standard GSM Ye With time standard GSM Ye Residence of protoction (IP) Ye Residence of protoction (IP) Ye Residence of protoction (IP) Ye Residence of protocti			
Supporting protocol for SafeyBUS p No Radio standard Bluetooth No Radio standard BUFF BERL No Radio standard GPRS No Radio standard GSM No Radio standard UMTS No Redundandru UMTS No Subject Po Regreg for protection (IP) No Basic device Po Expandable No Will member with clock No Rall mounting possible Po Redundanting possible No Suitable for safety f			
Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Radio standard Bluetooth No Radio standard Bluetooth No Radio standard BRS No Radio standard GBRS No Radio standard UMTS No 10 Ink master No Redundancy No With display No Degree of protection (IP) Ye2 Basic device Ye3 Expansion device No Expansion device Ye3 Radii mounting füret mounting Ye3 Yall mounting füret mounting Ye3 Rack-sambly possible Ye3 Rack sambly possible Ye3 Sutabe for safety turctions Ye3 Sutable for safety furctions Ye3 Appendant operation agent (Ex is) No Appendant operation agent (Ex is) No Appendant operation agent (Ex is) No Explosion safety category for gas No Explosion safety category for gas No			
Supporting protocol for other bus systems 6 No Radio standard Bluetooth 10 No Radio standard WFF-80211 10 No Radio standard GSM 10 No Radio standard GSM 10 No Radio standard UMTS 10 No Redundancy 10 No Redundancy 10 No With display 120 P20 Degree of protection (IP) 120 No Basic device 120 Yes Expandable 10 No Ex			
Radio standard Bluetooth			No
Radio standard WI-Fi 802.11 No Radio standard GPRS No Radio standard GSM No Radio standard MMTS No 10 link master No Redundancy No Wirth display Yes Degree of protection (IP) IP20 Basic device IP20 Expandable Yes Expandable Yes Expandable Yes With time switch clock Yes Rail mounting possible Yes Yell mounting fixect mounting Yes Front built-in possible Yes Rack-assembly possible Yes Sutable for safety functions Yes Sutable for safety functions None St. Laccording to IEC 61508 None Performance level according to ENISO 13849-1 None Appendant operation agent (Ex is) None Explosion safety category for dust None Explosion safety category for dust None Width None Explosion safety category for du	Supporting protocol for other bus systems		No
Radio standard GPRS No Radio standard GSM No Radio standard UMTS No 10 link master No Redundancy No With display Yes Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Rail mounting forested thy possible Yes Rack-assembly possible Yes Rack-assembly possible Yes Rack-assembly possible No Suitable for safety functions Yes Suitable for safety functions No Performance level accordin	Radio standard Bluetooth		No
Radio standard GSM No Radio standard UMTS No 10 link master No Redundancy No With display Yes Degree of protection (IP) IP20 Basic device Yes Expansion device No With time switch clock No Rail mounting possible Yes Wall mounting/direct mounting Yes Front built- in possible Yes Rack-assembly possible No Suitable for safety functions No Still according to IEC 61908 No Performance level according to EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ie) No Explosion safety category for dust None Width None Explosion safety category for dust None Width None Explosion safety category for dust None Width None Explosion safety category for dust None Width	Radio standard Wi-Fi 802.11		No
Radio standard UMTS No 10 link master No Redundancy No With display Yes Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Rack-assembly possible Yes Suitable for safety functions No Sil according to EC 61508 No Performance level according to EN ISO 13849-1 None Appendant operation agent (Ex ia) No Explosion safety category for das None Explosion safety category for dust None Width None Explosion safety category for dust<	Radio standard GPRS		No
IO link master No Redundancy No With display Yes Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Vall mounting/direct mounting Yes Saltable for safety functions No Suitable for safety functions No	Radio standard GSM		No
Redundancy Yes With display 1P20 Degree of protection (IP) 1P20 Basic device Yes Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Front built-in possible Yes Rack-assembly possible No Suitable for safety functions No Sul according to IEC 61508 None Performance level according to 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 None Width None Width None Explosion safety category for dust None Width None Width None Width None None None No	Radio standard UMTS		No
With display Yes Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expansion device Yes With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Front built-in possible Yes Rack-assembly possible Yes Suitable for safety functions No SIL according to IEC 61508 No Performance level according to EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for gas None Explosion safety category for dust None Width None Explosion safety category for dust None	10 link master		No
Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Front built-in possible Yes Rack-assembly possible No Suitable for safety functions No Suitable for safety functions No SIL according to IEC 61508 No Performance level according to EN ISO 13849-1 No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ib) No Explosion safety category for gas No Explosion safety category for dust None Width mm 72 Height mm 90	Redundancy		No
Basic device Expandable Expansion device With time switch clock Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex id) Explosion safety category for gas Explosion safety category for dust Width Width Height Wes No No No No No No No No No N	With display		Yes
Expandable Expansion device With time switch clock Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Height Performance level according to ISO 1844-1 Appendant operation agent (Ex ib) Explosion safety category for dust Width Height Performance level according to ISO 1844-1 Appendant operation agent (Ex ib) Explosion safety category for dust Width Mm Pac Performance level according to EN ISO 1844-1 Appendant operation agent (Ex ib) Explosion safety category for dust Width Mm Pac Performance level according to EN ISO 1844-1 Appendant operation agent (Ex ib) Appendant operation agent (Ex ib)	Degree of protection (IP)		IP20
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With time switch clock Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Min 72 Height	Expandable		Yes
Rail mounting possible Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Yes Yes No No No No No No No None None None None None None None None Explosion safety category for dust Width mm 72 Height	Expansion device		No
Wall mounting/direct mounting Front built-in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Midth	With time switch clock		Yes
Front built-in possible Rack-assembly possible No Suitable for safety functions No SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Yes No	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions No SIL according to IEC 61508 None Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation safety category for gas Explosion safety category for dust Width Midth M	Wall mounting/direct mounting		Yes
Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mone Width Mone Width Mone Province of the	Front built-in possible		Yes
SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 72 Height None	Rack-assembly possible		No
Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 72 Height None	Suitable for safety functions		No
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width mm 72 Height No No None None 90	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 72 Height Mo None	Performance level according to EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Width mm 72 Height Mone 90	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width mm 72 Height mm 90	Appendant operation agent (Ex ib)		No
Width mm 72 Height 90	Explosion safety category for gas		None
Height 90	Explosion safety category for dust		None
	Width	mm	72
Depth mm 58	Height	mm	90
	Depth	mm	58

Approvals

UL File No.	E205091
UL Category Control No.	NRAQ/7
North America Certification	UL listed
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions

ab Generation 05

Additional product information (links)

assembly instructions easyE4 IL050020ZU	
assembly instructions easyE4 IL050020ZU	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL050020ZU.pdf
easyE4 (MN050009) manual	
easyE4 – Handbuch (MN050009) - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_DE.pdf
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