DATASHEET - EASY-E4-UC-8RE1P



 $\ensuremath{\text{I/O}}$ expansion, For use with easyE4, 12/24 V DC, 24 V AC, Inputs/Outputs expansion (number) digital: 4, Push-In



Part no. EASY-E4-UC-8RE1P

Catalog No. 197510

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Product range	Control relays easyE4
Subrange	I/O expansions digital
Basic function	easyE4 extensions
Description	Input/output extension for easyE4 control relay Expandable with the easyE4 series of digital input/output expansions with easy-E4- CONNECT1 connector (Item Y7-197225) Rated operating voltage 12V DC, 24V DC or 24V AC 4 digital inputs for 12 VDC, 24 VDC or 24 VAC 4 relay outputs for 12–250 VAC or 12–240 VDC Push in terminals
Inputs	
Inputs expansion (number)	digital: 4
Additional features	
Software	EASYSOFT-SWLIC/easySoft 7
Supply voltage	12/24 V DC 24 V AC
For use with	easyE4

Technical data

General

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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
		DNV·GL
Dimensions (W x H x D)	mn	n 35.5 x 90 x 58
Weight	kg	0.113
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Connection type		Push-in terminals
Terminal capacities		

Push-in terminals		
Solid	mm^2	0,2 - 0,4
flexible	mm^2	0.2 - 2.5
Solid or flexible conductor, with ferrule	mm^2	0,25 - 1,5
Solid or stranded	AWG	24 - 14
Standard screwdriver	mm	0.4 x 2.5
Stripping length	mm	8

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

Storage	9	°C	-40 - +70
relative humidity	U	%	in accordance with IEC 60068-2-30, IEC 60068-2-78
leiative numbers		/0	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	-
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)	-13	m	0.3
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			Volume of Horizontal
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
Lieutionagnetic neius (m n) to IEC EN 01000-4-3		v/III	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)
Immunity to line conducted interference to /IFC/FN C1000 4 C)		V	2 kV (supply cables, asymmetrical)
Immunity to line-conducted interference to (IEC/EN 61000-4-6) Insulation resistance		V	10
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			in accordance with EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO.
			61010-2-201
Power 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. 150 mA at 12 V DC
Valtage dies			max. 80 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 2
Heat dissipation at 24 V DC		W	2
Digital inputs 12 V DC			
Number			4
Potential isolation			from power supply: no between inputs: no from the outputs: yes
			to base unit: yes to expansion devices: yes
Rated operational voltage	U _e	V DC	12
Input voltage		V DC	Status 0: ≤ 5 (I1 - I4) Condition 1: ≥ 8 (I1 - I4)
Input current at signal 1		mA	1.75 mA (I1 - I4)
Deceleration time		ms	type 0.2 (0 -> 1) type 0.15 (1 -> 0)
Cable length		m	100 (unshielded)
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Digital inputs 24 V DC

Digital inputs 24 V DC			
Number			4
Potential isolation			from power supply: no between inputs: no from the outputs: yes to base unit: yes to expansion devices: yes
Rated operational voltage	U _e	V DC	24
Input voltage		V DC	Signal 0: ≦ 5 (I1 - I4) Signal 1: ≧ 15 (I1 - I4)
Input current at signal 1		mA	3.3 (11 – 14)
Deceleration time		ms	type 0.1 (0 -> 1) type 0.2 (1 -> 0)
Cable length		m	100 (unshielded)
Digital inputs 24 V AC			
Number			4
Potential isolation			from power supply: no between inputs: no from the outputs: yes to base unit: yes to expansion devices: yes
Rated operational voltage	U _e	V AC	24
Input voltage (AC = sinusoidal)	U _e	V	Status 0: ≦ 5 (I1 - I8) Condition 1: ≧ 14 (I1 - I4)
Rated frequency		Hz	50/60
Input current at signal 1		mA	I1 - I4: 3.5 (at 24 VAC/DC)
Deceleration time		ms	type 25/21 (0 - > 1/1 -> 0, 50/60Hz)
Cable length		m	40 (unshielded)
Relay outputs			
Number			4
Outputs in groups of			1
Parallel switching of outputs for increased output			Not allowed
Protection of an output relay Potential isolation			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 to expansion devices: yes
Contacts			
Conventional thermal current (10 A UL)		Α	5
Recommended for load: 12 V AC/DC		mA	> 500
Rated impulse withstand voltage 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	5
Uninterrupted current at 24 V DC	Α	5
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

Design verification as per IEC/EN 61439

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Technical data for design verification			
Static heat dissipation, non-current-dependent	P _{vs}	W	2
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 7.0

PLC's (EG000024) / Logic module (EC001417)			
Electric engineering, automation, process control engineering / Control / Programm	nable logic control	l (SPS) /	Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])
Supply voltage AC 50 Hz	V		20.4 - 28.8
Supply voltage AC 60 Hz	V		20.4 - 28.8

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Radio standard GSM Radio standard UMTS No 10 link master No			
Radio standard UMTS No No IO link master No			
10 link master No			
Madundanov			
Redundancy No No No			
	With display		
Expandable Yes Expansion device Yes			
Expansion device Yes With times	Expansion device With timer		
With timer No Rail mounting possible Yes			
Truit invariantly possible	non mounting possible		100

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	35.5
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

