DATASHEET - EASY-E4-AC-8RE1



I/O expansion, For use with easyE4, 100 - 240 V AC, 110 - 220 V DC (cULus: 100-110 V DC), Inputs expansion (number) digital: 4, screw terminal



Part no. EASY-E4-AC-8RE1 Catalog No. 197221

110	INCE	nro	gram
116	IIVEIV	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	,	Pio	9

Product range	Control relays easyE4
Subrange	easyE4 digital input/output enhancements
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 100 to 240V AC or 100 to 240V DC For cULus, 100–110 VDC applies to all VDC specifications. 4 digital inputs with 100–240 VAC or 100–240 VDC 4 relay outputs for 12–250 VAC or 12–220 VDC Screw terminals
Inputs	
Inputs expansion (number)	digital: 4
Additional features	
Display	with diagnostic LED
Software	EASYSOFT-SWLIC/easySoft 7
Supply voltage	100 - 240 V AC, 100 - 240 V DC (cULus: 100 - 110 V DC)
For use with	easyE4

Technical data

General

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)	mm	35.5 x 90 x 58
Weight	kg	0.129
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)
Connection type		screw terminal
Terminal capacities		
Screw terminals		
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
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	8	°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
power pulses (Surge)			Signal cables: 2 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)		V	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			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	100 - 240V DC (-15/+10%) 100 - 240 DC (cULus: 100 -110 DC) (-15/+10%)
Permissible range	U _e		85 - 264 V AC 85 - 264 V DC (cULus: 85 - 120 V DC)
Residual ripple		%	≦5
Protection against polarity reversal			yes
Frequency		Hz	50/60 (± 5%)
Voltage dips		ms	≤ 20 ms at 100V AC 10 ms at 100V DC
Fuse		Α	≥ 1A (T)
Digital inputs 115/230 V AC		^	= 10(1)
Number			4
Potential isolation			from power supply: no between inputs: no from the outputs: yes to the base unit: yes to the expansion units: yes
Rated operational voltage	U _e	V	100 - 240 V AC 100 - 240 V DC (cULus: 100 - 110 V DC)
Input voltage	U _e	V	Condition 0: 0 - 40V AC/DC Condition 1: 79–264 V AC/DC (cULus: 79–264 V AC/79–120 V DC)
Rated frequency		Hz	50/60
Input current at signal 1		mA	11 - 14: 4 x 0.25 (at 115 V AC, 60 Hz) 11 - 14: 4 x 0.5 (at 230V AC, 50 Hz) 11-14: 4 x 0.25 (at 115 VDC) 11 - 14: 4 x 0.5 (at 230V DC)
Deceleration time		ms	type 25/21 (0 - > 1/1 -> 0, 50/60Hz) for AC type 0.5 (0 - > 1/1 -> 0) in DC
Cable length		m	40 (unshielded)

Relay outputs

Relay outputs			
Number			4
Outputs in groups of			1
Parallel switching of outputs for increased output			Not permitted
Protection of an output relay			B16 circuit breaker or 8 A (T) fuse
Potential isolation			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 with stand voltage \mathbf{U}_{imp} of contact coil		kV	6
Rated operational voltage	Ue	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			
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
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 $\cos \phi \neq \text{capacity 1 at B 300}$		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

Technical data for design verification			
Static heat dissipation, non-current-dependent	P_{vs}	W	8
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

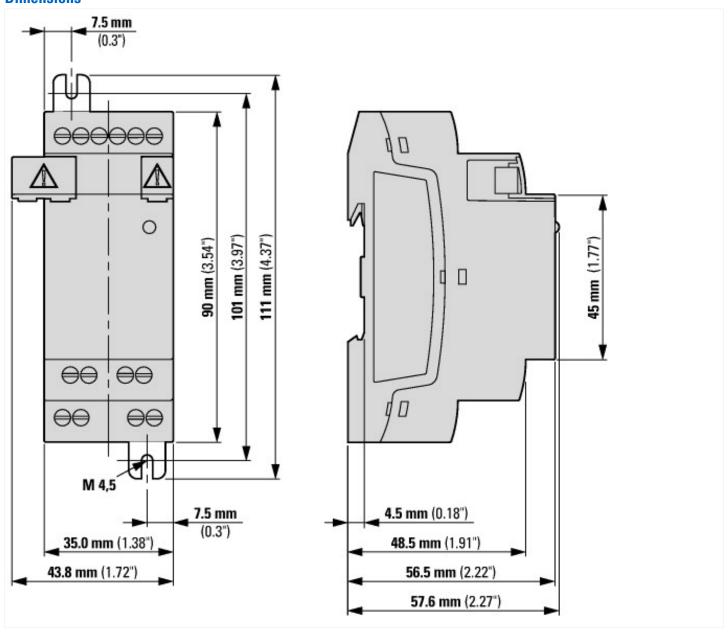
reclinical data ETHV 7.0			
PLC's (EG000024) / Logic module (EC001417) Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])			
Supply voltage AC 60 Hz	V	85 - 264	
Supply voltage DC	V	85 - 264	
Voltage type of supply voltage		AC/DC	
Switching current	А	5	
Number of analogue inputs		0	
Number of analogue outputs		0	
Number of digital inputs		4	
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		2	
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	

Suggesting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for MXDEX Supporting purcose for SUSONET Supporting purcose for SUSONET Supporting purcose for SUSONET Supporting purcose for PROFINET for Supporting purcose for PROFI	Supporting protocol for ASI		No
Supporting protect for MUDBA INJUNY No Supporting protect for Deta Highway No Supporting protect for DETA INTERT ID No Supporting protect for FDETA ID No Supporting protect for Series (BUS) No Supporting protect for Series (BUS) No Supporting protect for Other Insus systems No Badic standard VMAU IND.11 No Badic standard VMAU IND.11 No Badic standard VMAU IND.11 No Badic standard VMAU IND.12 No <			
Supporting protocol for Data Highway No Supporting protocol for Davis ONE No Supporting protocol for Davis ONE No Supporting protocol for LON No Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for Foundation Flatibus No Supporting protocol for No-Investigated Safety No Supporting protocol for PROFILETE CBA No Radio Canadard Shuffanda No Radio Canadard Shuffanda No Radio Canadard Safety No Reductationary No <td></td> <td></td> <td></td>			
Supporting protocol for Evel-ceNer No Supporting protocol for SUCONET No Supporting protocol for EVELONET No Supporting protocol for PROFINET IOA No Supporting protocol for PROFINET COA No Supporting protocol for SHODS No Supporting protocol for SHODS No Supporting protocol for SHODS No Supporting protocol for Schools afterly at Work No Supporting protocol for Schools afterly at Work No Supporting protocol for MITERIOUS Stafety No Supporting protocol for Schools afterly at Work No Real actander Schools No Real actander Schools No Real actander CREA No Real actander UNITY No Delegate devotection IPP No			
Supporting protect for SUCONET No Supporting protect for LNN No Supporting protect for LNN No Supporting protect for PROFINET DRA No Supporting protect for PROFINET DRA No Supporting protect for SERODS No Supporting protect for Formatishin Fieldus No Supporting protect for EthenkelP No Supporting protect for SERODS No Supporting protect for SERODS Supporting protect for PROFIshalf No Supporting protect for PROFIshalf No Supporting protect for staffedUSS No Supporting protect for staffed USS supporting protect for staffedUSS No Supporting protect for staffedUSS No Supporting protect for staffedUSS No Redict standard SEMO No Redic			
Supporting protect for PROFNET IO No Supporting protect for PROFNET IO No Supporting protect for PROFNET COA No Supporting protect for PROFNET COA No Supporting protect for FERCOS No Supporting protect for Ferundation Fieldhus No Supporting protect for Defected Safety No Supporting protect for Defected Safety No Supporting protect for Defected Safety No Supporting protect for FROFNEEds No Supporting protect for FROFNEEds No Supporting protect for FROFNEEds No Supporting protect for other bas systems No Radio standard MTALA NEZ.1 No Radio standard SPRS No Radio standard SPRS No Reduction Spray No Visit distance of PROFNEEds No Visit distance of SPRS No Reduction Spray No <			
Supporting protocol for PROFINET IC DAS No Supporting protocol for PROFINET IC DAS No Supporting protocol for PROFINET IC DAS No Supporting protocol for Defendation Fledbus No Supporting protocol for EtherNeIPP No Supporting protocol for Defendation Safety at Work No Supporting protocol for INTERBUS Safety No Supporting protocol for PROFIDIATS No Supporting protocol for PROFIDIATS No Supporting protocol for other bus systems No Supporting protocol for other bus systems No Redo standard Blustooth No Redo standard Blustooth No Redo standard Blustooth No Redo standard DMTAS No Reductable No Reductable Yes Expansion device to IIP) No Basic device Yes Expansion gapestile No			
Supporting protected for PROPNET CBA No Surporting protected for SERCAS No Supporting protected for FROMENDE No Supporting protect for From Methor No Supporting protect for FROMENDE No Supporting protect for AS-Intertiace Safety at Work No Supporting protect for FROMENDES No Supporting protect for PROPISAIS No Supporting protect for PROPISAIS No Supporting protect for FROMENDES No Redict standard Bluetoth No Redict standard Bluetoth No Redict standard WLAN 82.11 No Redict standard WLAN 82.11 No Redict standard WLAN 82.11 No Redict standard SMA No Redict standar			
Supporting protocol for SENCOS No Supporting protocol for Foundation Fieldous No Supporting protocol for Ashinterface Safety at Work No Supporting protocol for Devicable Safety No Supporting protocol for Devicable Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for Safety 8USp No Radio standard Bluetooth No Radio standard Safety No Radio standard Safety No Radio standard GRNS No Radio standard GRNS No Radio standard GRNS No Redundancy No No No Redundancy No No No Basic device P22 Expansion device Ye With singer No Radio standard With Ye Will mounting possible Ye			
Supporting protocol for Ethan-WelfP No Supporting protocol for Ethan-WelfP No Supporting protocol for Ethan-WelfP No Supporting protocol for DevocANA Safety No Supporting protocol for PROFILES No Supporting protocol for PROFILES No Supporting protocol for PROFILES No Supporting protocol for Other bus systems No Radio standard Blutzooth No Radio standard Blutzooth No Radio standard WLAN BRZ.1 No Radio standard WLAN BRZ.1 No Radio standard WLAN BRZ.1 No Radio standard MLAN BRZ.1 No Radio standard MLAN BRZ.1 No Radio standard SLAN Yo Radio standard MLAN BRZ.2 No Radio standard MLAN BRZ.2 No Radio standard MLAN BRZ.2 Yo Radio standard SLAN Yo Radio standard MLAN BRZ.2 Yo Radio standard SLAN Yo Radio standard MLAN BRZ.2 Yo Radio standard SLAN Yo			
Supporting protocol for EherNevilP No Supporting protocol for AS-Interface Safety at Work No Supporting protocol for INTERIUS-Safety No Supporting protocol for INTERIUS-Safety No Supporting protocol for ENDRESIG No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Radio standard Blustooth No Radio standard Blustooth No Radio standard SRM No Radio standard GRM No <			
Supporting protocol for DeviceNet Safety Na Supporting protocol for DeviceNet Safety Na Supporting protocol for PBOFEath Na Radio standard Bluetoth Na Radio standard Bluetoth Na Radio standard SAM Na Radio standard GSM Na Radio standard GMTS Na Redundancy Na With signle Na Separation (WICE Na Repaid of standard JMTS Na Expandable Yes Expandable Yes With timer Na Rail mounting defrect mounting Na<			
Supporting protocol for DeviceNet Safety Mo Supporting protocol for INTERBUS Safety No Supporting protocol for SafetyBUS Safety No Supporting protocol for SafetyBUS Safety No Supporting protocol for SafetyBUS Safety No Redic standard Blustooth No Redic standard Blustooth No Redic standard WLAN 80211 No Redic standard WLAN 80211 No Redic standard UMTS No Redic standard Safety No Redic standard UMTS No Redic standard UMTS No Rediction standard UMTS No Rediction Safety Safety No Rediction standard UMTS No Rediction standard UMTS No Rediction standard Safety No Rediction standard UMTS No Rediction standard Safety No Region standard			No
Supporting protocol for NTERBUS-Safrety 1 No Supporting protocol for PRODISarle 1 No Supporting protocol for SafreyBUS p 1 No Radio standard Bluetooth 1 No Radio standard Bluetooth 1 No Radio standard GNRS 1 No Radio standard GNRS 1 No Radio standard GMTS 1 No Redundancy 1 No Redundancy 1 No With display 1 No Beside device 1 No Expansion device 2 No Expansion device 3 No With timer 4 No Nall mounting passible 4 No Wall mounting/firet mounting 5 No Silve condition (PC) 4 No Silve condition possible 5 No Wall mounting/firet mounting 5 No Silve condition to possible 6 No			
Supporting protocol for ShfekyBUS p 10 Supporting protocol for ShfekyBUS p 70 Supporting protocol for other bus systems 10 Radio standard WLAN 802.11 10 Radio standard WLAN 802.11 10 Radio standard SMS 10 Radio standard SMS 10 Radio standard UMTS 10 Redundancy 10 Redundancy 10 Redundancy 10 Basic device 10 Basic device 10 Expandable 10 Expandable 10 Radiuming possible 10 Wall mounting possible 10 Radii mounting possible 10 Radii mounting possible 10 Radii casandar Quanting possible 10 Radii mounting possible 10 Radii casandar Quanting possible			No
Supporting protocol for Safety BUS p No Supporting protocol for other bus systems No Radio standard BURSON No Radio standard WAAN 802.11 No Radio standard BPRS No Radio standard GBM No Radio standard UMIS No Redundancy P0 Redundancy No Redundancy No Redundancy No Reparation service No Radio standard UMIS No Radio standard UMIS			No
Supporting protocol for other bus systems Incompany No Radio standard Busbooth 10 No Radio standard GNAS 10 No Radio standard GSM No No Radio standard GSM No No Redundand GSM No No Redundand GMS No No Redundand GMS No No Redundancy No No Redundancy No No Which display No No Basic device Po Po Expandable No No Expansion device No No With timer No No Sall in nounting direct mounting No No Front build in possible No No Reck-assembly possible No No Suitable for safety functions No No Strategy according to Ex 1950 No No Strategy according to Ex 1950 No No			
Radio standard Bluetooth No Radio standard WAN 802.11 No Radio standard GPRS No Radio standard GMTS No Rediot standard GMTS No Rediot standard GMTS No Redundancy No Redundancy No With display No Degree of protection (IP) No Basic device No Expansion device No With timer No Rail mounting possible No Wall mounting/direct mounting No Sock-assembly possible No Sock-assembly possible No Sock-assembly possible No Sock-assembly possible No Sock-assembly possible	Supporting protocol for SafetyBUS p		No
Radio standard WLAN 802.11 No Radio standard GPRS No Radio standard GSM No Radio standard UMTS No O link master No Redundancy No With display No Degree of protection (IP) P20 Basic device No Expandable Yes Expansion device Yes With timer No Rail mounting possible Yes Wall mounting fideret mounting Yes Statisble for safety functions Yes Catagory according to EN 954-1 No Statable for safety functions Yes Catagory according to EN 954-1 No St. Laccording to EC 91508 Yes Performance level acc. EN ISO 13849-1 No Appendant operation agent (Ex ia) Yes Appendant operation agent (Ex ia) Yes Explosion safety category for gas Yes Explosion safety category for gas Yes Role Yes None <	Supporting protocol for other bus systems		No
Radio standard GPRS No Radio standard GSM No Redio standard UMTS No 10 link master No Redundancy No With display No Degree of protection (IP) IP20 Basic device IP20 Expandable Yes Expandable Yes With timer No Rail mounting possible Yes Wall mounting direct mounting Yes Rail mounting direct mounting No Rack-assembly possible No Rack-assembly possible No Subable for safety functions No Category according to EN 954-1 No Subable for safety functions No Category according to EN 954-1 None Subable for safety functions None Category according to EN 954-1 None Subable for safety functions None Category according to EN 954-1 None Subable for safety functions None Subable for safety functions	Radio standard Bluetooth		No
Radio standard GSM No Radio standard UMTS No 10 link master No Redundancy No With display Po Degree of protection (IP) IP20 Basic device No Expandable Yes Expandable Yes Expansion device No With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Rack-assembly possible No Rack-assembly possible No Rack-assembly possible No Suitable for safety functions Yes Stateording to EN 984-1 No Sil according to EN 984-1 None Performance level acc. EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for dust None Witth None Explosion safety category for dust None Witth None	Radio standard WLAN 802.11		No
Radio standard UMTS No 10 link master No Redundancy No With display No Dagree of protection (IP) P20 Basic device No Expandable Yes Expandable Yes Expandable No With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Front build in possible No Suitable for safety functions No Category according to EN 954-1 No SIL according to EC 61508 None Performance level acc. EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) 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 Width None Non	Radio standard GPRS		No
ID link master No Redundancy No With display No Degree of protection (IP) IP20 Basic device No Expandable Yes Expandable Yes Expansion device Yes With timer No 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 No SIL according to IEC 61508 No Performance level acc. EN ISO 13849-1 No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for dust No With No Explosion safety category for dust No With No Explosion safety category for dust No With No Explosion safety category for dust No	Radio standard GSM		No
Redundancy No With display No Degree of protection (IP) 1P20 Basic device No Expandable Yes Expansion device Yes With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Wall mounting/direct mounting Yes Wall for safety functions No Suitable for safety functions No <t< td=""><td>Radio standard UMTS</td><td></td><td>No</td></t<>	Radio standard UMTS		No
With display No Degree of protection (IP) IP20 Basic device No Expandable Yes Expansion device Yes With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Front build in possible Yes Rack-assembly possible No Suitable for safety functions No Category according to EN 954-1 No SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for gas No Explosion safety category for dust No Width No Explosion safety category for dust No Width No Explosion safety category for dust No Width No Explosion safety category for dust No W	10 link master		No
Degree of protection (IP) 120 Basic device 120 Expandable 120 Expandable 120 Expansion device 120 With timer 120 Rail mounting possible 120 Wall mounting/direct mounting 120 Front build in possible 120 Rack-assembly possible 120 Suitable for safety functions 120 Statable for safety functions 120 Stateording to EN 954-1 120 Stateording to EC 61508 120 Performance level acc. EN ISO 13849-1 120 Appendant operation agent (Ex ia) 120 Appendant operation agent (Ex ia) 120 Appendant operation agent (Ex ia) 120 Explosion safety category for dust 120 Width 120 Begins in safety category for dust 120 Width 120 In in the propertion agent (Ex ia) 120 In in the propertion agent (Ex ia) 120 In in the properti	Redundancy		No
Basic device No Expandable Yes Expansion device Yes With timer No Rail mounting possible Yes Wall mounting/direct mounting Yes Front build in possible Yes Rack-assembly possible No Suitable for safety functions No Catagory according to EN 954-1 No SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for gas No Explosion safety category for dust No Width None Width None Width None Explosion safety category for dust None Width None Width None Width None Explosion safety category for dust None Width None Width None Width	With display		No
Expandable Yes Expansion device Yes With timer No 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 No SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ia) No Explosion safety category for gas No Explosion safety category for dust None Width None None None <t< td=""><td>Degree of protection (IP)</td><td></td><td>IP20</td></t<>	Degree of protection (IP)		IP20
Expansion device With timer With timer Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. 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 Height No No No No No No No No No N	Basic device		No
With timer Rail mounting possible Ves Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Height No mm 35.5 Height	Expandable		Yes
Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. 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 Was Yes Yes No No No No No No No No No N	Expansion device		Yes
Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None SIL according to IEC 61508 None Performance level acc. 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 Was Yes No No No No No None None None None None	With timer		No
Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. 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 Width Height No No None None None None None None Non	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions No Category according to EN 954-1 None SIL according to IEC 61508 Performance level acc. 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 Midth	Wall mounting/direct mounting		Yes
Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width Midth	Front build in possible		No
Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. 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 Mone None Width mm 35.5 Height	Rack-assembly possible		No
SIL according to IEC 61508 Performance level acc. 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 35.5 Height None None None None 90	Suitable for safety functions		No
Performance level acc. 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 35.5 Height None	Category according to EN 954-1		None
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width mm 35.5 Height No None 90	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mmm 35.5 Height No None None None 90	Performance level acc. EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Width mm 35.5 Height None None mm 90	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width mm 35.5 Height 90	Appendant operation agent (Ex ib)		No
Width mm 35.5 Height 90	Explosion safety category for gas		None
Height 90	Explosion safety category for dust		None
	Width	mm	35.5
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



Additional product information (links)

f1=1454&f2=1174&f3=1755;Download Software easySoft V7	http://applications.eaton.eu/sdlc?LX=11&
Product overview (WEB)	http://www.eaton.eu/easyE4