

Specifications



Eaton 116382

Eaton EU5E SWD I/O module, 24 V DC, 4 digital inputs, 4 digital transistor -outputs 0, 0.5A

General specifications

PRODUCT NAME	Eaton EU5E I/O module
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CATALOG NUMBER	116382
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MODEL CODE	EU5E-SWD-4D4D
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EAN	4015081161126
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PRODUCT LENGTH/DEPTH	102 mm
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PRODUCT HEIGHT	90 mm
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PRODUCT WIDTH	35 mm
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PRODUCT WEIGHT	0.09 kg
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CERTIFICATIONS	UL File No.: E29184 IEC/EN 61131-2 UL Category Control No.: NKCR CSA Class No.: 3211-07 CSA File No.: 2324643 CSA UL
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Powering Business Worldwide

Ambient conditions, mechanical

CONSTANT ACCELERATION	1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, Vibrations
CONSTANT AMPLITUDE	3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Vibrations
DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
MOUNTING POSITION	As required
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Communication

CONNECTION TO SMARTWIRE-DT	Yes
CONNECTION TYPE	Plug, 8-pole, SmartWire-DT Connection plug: external device plug SWD4-8SF2-5, SmartWire-DT Push in terminals, Supply and I/O sensor
DATA TRANSFER RATE	Setting automatically 250 kBit/s, SmartWire-DT
LED INDICATOR	Status indication of SmartWire-DT network: Green LED Status indication of input: Yellow LED Status indication of display outputs: Yellow LED
PROTOCOL	Other bus systems
STATION	SmartWire-DT slave, SmartWire-DT network

Climatic environmental conditions

AIR PRESSURE	795 - 1080 hPa (operation)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-3
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures
OPERATING TEMPERATURE - MAX	55 °C
OPERATING TEMPERATURE - MIN	-25 °C
RELATIVE HUMIDITY	5 - 95 % (non-condensing, IEC/EN 60068-2-30)

Design verification

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.
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 RESIST. OF INSUL. MAT. TO	Meets the product standard's requirements.

ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	
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.
10.9.2 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.1 W

Electrical rating

INPUT CURRENT	4 mA (at 24 V DC, Digital inputs)
INPUT CURRENT AT SIGNAL 1	4 mA
OUTPUT CURRENT	0.5 A
POWER LOSS	1.1 W
RATED OPERATIONAL VOLTAGE	24 V DC (-15 %/+ 20 % - power supply)
SHORT-CIRCUIT PROTECTION	Outputs are short-circuit proof
SHORT-CIRCUIT TRIPPING CURRENT	Max. 1.2 A over 3 ms, Digital semi-conductor outputs
SUPPLY VOLTAGE AT DC - MAX	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC

Features & functions

ELECTRIC CONNECTION TYPE	Flat plug-in connection
FEATURES	Fieldbus connection over separate bus coupler possible Overload proof (with diagnostics) Fieldbus connection over separate bus coupler possible
FUNCTIONS	For connection of digital I/O signals

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC 61131-2, level 3, ESD
BURST IMPULSE	1 kV, Signal cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3 2 kV, Supply cable, according to IEC/EN 61131-2, Level 3
CONTACT DISCHARGE	4 kV, according to IEC/EN 61131-2, Level 2, ESD
ELECTROMAGNETIC FIELDS	1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2:2008) 10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008)
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)
RADIO INTERFERENCE CLASS	Class A (EN 55011)
SURGE RATING	0.5 kV, Surge power cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC 1 kV, Surge I/O cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC

General information

CURRENT CONSUMPTION	33 mA, SmartWire-DT network
DEGREE OF PROTECTION	IP20
MOUNTING METHOD	Wall mounting/direct mounting Rail mounting possible Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
OVERVOLTAGE CATEGORY	II
POLLUTION DEGREE	2
PRODUCT CATEGORY	SmartWire-DT slave
RESIDUAL RIPPLE	≤ 5 % (input voltage)
TERMINAL CAPACITY	0.2 - 1.5 mm ² (AWG 24 -

Input/Output	
INPUT DELAY	< 0.2 ms
LAMP LOAD	≤ 3 W (at RLL)
LIMIT VALUE TYPE 1	High: > 15 V DC Low: < 5 V DC
NUMBER OF INPUTS (DIGITAL)	4
NUMBER OF OUTPUTS (DIGITAL)	4
OUTPUT	4 Transistor Outputs
SWITCHING CAPACITY	IEC/EN 60947-5-1, utilization category DC-13, Digital outputs

	16), solid, Terminal for I/O sensor 0.25 - 1.5 mm ² (24 - 16 AWG), flexible with ferrule, Terminal for I/O sensor
TYPE	Digital modules
VOLTAGE TYPE	DC

Safety	
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
POTENTIAL ISOLATION	Outputs to SmartWire-DT: yes Inputs for SmartWire-DT: yes
PROTECTION AGAINST POLARITY REVERSAL	Yes Yes, for supply voltage (Siemens MPI optional)

Resources

BROCHURES	eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf SmartWire-DT Catalog
DECLARATIONS OF CONFORMITY	eaton-i-o-module-declaration-of-conformity-uk250998en.pdf eaton-i-o-module-declaration-of-conformity-eu250515en.pdf
DRAWINGS	eaton-modular-plc-eu5e-i-o-module-dimensions-002.eps eaton-modular-plc-eu5e-i-o-module-dimensions.eps eaton-general-eu5e-i-o-module-symbol.eps eaton-modular-plc-swd-eu5e-i-o-module-3d-drawing.eps eaton-general-approval-easy-control-relays-standards.jpg eaton-general-easy-control-relays-symbol-002.tif
ECAD MODEL	ETN.EU5E-SWD-4D4D
INSTALLATION INSTRUCTIONS	IL05006002Z
INSTALLATION VIDEOS	SmartWire-DT in Application
MANUALS AND USER GUIDES	MN05006001Z_EN MN05006002Z_EN
MCAD MODEL	eaton-eu5e-swd_digital_3d-model.stp eaton-module-mcad-drawings-eu5e-swd-digital.dwg

MULTIMEDIA	easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator SmartWire-DT Overview and how to use in easySoft Z How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?
SALES NOTES	eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf
WIRING DIAGRAMS	eaton-modular-plc-power-supply-eu5e-i-o-module-wiring-diagram-003.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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