I/O module, SmartWire-DT, 24 V DC, 8DI

Part no. EU5E-SWD-8DX

116381

EL Number 4519768

(Norway)



(INUI Way)	
General specifications	
Product name	Eaton EU5E Accessory Input module
Part no.	EU5E-SWD-8DX
EAN	4015081161119
Product Length/Depth	102 millimetre
Product height	90 millimetre
Product width	35 millimetre
Product weight	0.09 kilogram
Certifications	CSA File No.: 2324643 UL File No.: E29184 IEC/EN 61131-2 CSA UL Category Control No.: NKCR CSA Class No.: 3211-07 UL
Product Tradename	EU5E
Product Type	Accessory
Product Sub Type	Input module
Features & Functions	
Electric connection type	Flat plug-in connection
Features	Fieldbus connection over separate bus coupler possible
Functions	For connection of digital I/O signals
General information	
Current consumption	16 mA, SmartWire-DT network
Degree of protection	IP20
Overvoltage category	II II
Pollution degree	2
Product category	SmartWire-DT slave
Terminal capacity	0.25 - 1.5 mm 2 (24 - 16 AWG), flexible with ferrule, Terminal for I/O sensor 0.2 - 1.5 mm 2 (AWG 24 - 16), solid, Terminal for I/O sensor
Туре	Digital modules
Voltage type	DC
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
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °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 - min	-25 °C
Operating temperature - max	55 °C

Relative humidity	5 - 95 % (non-condensing, IEC/EN 60068-2-30)
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 2 kV, Supply cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3
Contact discharge	4 kV, according to IEC/EN 61131-2, Level 2, ESD
Electromagnetic fields	10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008) 1 V/m at 2.0 - 2.7 GHz (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	1 kV, Surge I/O cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC
Electrical rating	
Input current	4 mA (at 24 V DC, Digital inputs)
Input current at signal 1	4 mA
Output current	0 A
Power loss	1 W
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Communication	
Connection to SmartWire-DT	Yes
Connection type	Push in terminals, Supply and I/O sensor Connection plug: external device plug SWD4-8SF2-5, SmartWire-DT Plug, 8-pole, SmartWire-DT
Data transfer rate	250 kBit/s, SmartWire-DT Setting automatically
LED indicator	Status indication of SmartWire-DT network: Green LED Status indication of input: Yellow LED
Protocol	Other bus systems
Station	SmartWire-DT slave, SmartWire-DT network
Input/Output	
Input delay	< 0.2 ms
Limit value type 1	High: > 15 V DC Low: < 5 V DC
Number of inputs (digital)	8
Number of outputs (digital)	0
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Inputs for SmartWire-DT: yes
Design verification	
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	1W
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 abnormal heat/fire by internal elect. 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.

10.4 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.
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 9.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss13-27-24-26-04 [BAA055019])

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V	0 - 0
V	0 - 0
V	20.4 - 28.8
	DC
	8
	0
	No
	No
mA	4
V	20.4 - 28.8
	DC
	None
Α	0
V	0 - 0
	DC
	No
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	No
	V V V mA V

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			Yes
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
System accessory			Yes
Degree of protection (IP)			IP20
Type of electric connection			Flat plug-in connection
Time delay at signal change	r	ms	0 - 0
Fieldbus connection over separate bus coupler possible			Yes
Rail mounting possible			Yes
Wall mounting/direct mounting			Yes
Front built-in possible			No
Rack-assembly possible			No
Suitable for safety functions			No
SIL 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
Certified for UL hazardous location class I			No
Certified for UL hazardous location class II			No
Certified for UL hazardous location class III			No
Certified for UL hazardous location division 1			No
Certified for UL hazardous location division 2			No
Certified for UL hazardous location group A (acetylene)			No
Certified for UL hazardous location group B (hydrogen)			No
Certified for UL hazardous location group C (ethylene)			No
Certified for UL hazardous location group D (propane)			No
Certified for UL hazardous location group E (metal dusts)			No
Certified for UL hazardous location group F (carbonaceous dusts)			No
Certified for UL hazardous location group G (non-conductive dusts)			No
Width	r	mm	35
Height	r	mm	90
Depth	r	mm	102