Digital input module; 20 digital inputs 24 V DC each; pulse-switching; 5.0 $\,$ ms $\,$



Part no. XN-322-20DI-PD 178786

General specifications	
Product name	Eaton XN-322 Accessory Input module
Part no.	XN-322-20DI-PD
EAN	7640130097582
Product Length/Depth	104.2 millimetre
Product height	16.8 millimetre
Product width	80.3 millimetre
Product weight	0.055 kilogram
Certifications	CULus IEC/EN 61131-2 CE UL File No.: E135462 IEC/EN 61000-6-4 IEC/EN 61000-6-2
Product Tradename	XN-322
Product Type	Accessory
Product Sub Type	Input module
Catalog Notes	The max. heat dissipation is specified as the maximum power produced inside the device's housing.
Features & Functions	
Electric connection type	Plug-in connection
Features	Fieldbus connection over separate bus coupler possible
General information	
Current consumption	None mA (typ.), for +24 V, Power supply - Input 35 mA (typ.), for +5 V power supply (internal), Power supply - Input
Degree of protection	IP20
Mounting method	Rail mounting possible
Number of channels	20
Overvoltage category	III
Pollution degree	3
Product category	XN-322 digital input module
Туре	Digital I/O module with twenty 24 V DC / 3.7 mA (EN61131-2 type 1) inputs with a 0 ms input filter. XN300 I/O slice module
Used with	XN300 XN-312
Voltage type	DC
Ambient conditions, mechanical	
Height of fall (IEC/EN 60068-2-32) - max	1 m
Mounting position	Horizontal
Shock resistance	15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts
Vibration resistance	5 - 8.4 / 8.4 -150 Hz, 3,5 mm / 1 g
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	85 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-3 Dry heat to IEC 60068-2-2
Environmental conditions	Condensation: prevent with appropriate measures
Relative humidity	0 - 95 % (non-condensing)

Electro magnetic compatibility	
Air discharge	8 kV
Burst impulse	1 kV, Signal cable 2 kV, Supply cable
Contact discharge	4 kV
Electromagnetic fields	1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Emitted interference	47 dB (at 230 - 1000 MHz, Class A, radiated, high frequency) 40 dB (at 30 - 230 MHz, Class A, radiated, high frequency)
Radiated RFI	10 V
Surge rating Voltage dips	1 kV, Signal cable, unbalanced, EMC 0.5/0.5 kV, Supply cable, balanced/unbalanced), EMC Voltage dips: 10 ms/Voltage fluctuations: Yes
	voltage ulps. To ms/voltage nuctuations. Tes
Terminal capacities	0.2. 15 mm² florible without formula 1107V V
Terminal capacity	0.2 - 1.5 mm², flexible without ferrule, H07V-K 0.25 - 1.5 mm², with ferrules without plastic collar according to DIN 46228-1 (ferrule crimped gas-tight) 0.25 - 1.5 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 24 - 16 AWG 0.2 - 1.5 mm², solid, H07V-U
Gauge pin	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	10 mm
Insulating material group	
Electrical rating	
Rated operational voltage	160 V (terminations)
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	18 V DC
Supply voltage at DC - max	30 V DC
Communication	
Connection type	Push-in spring-cage terminal (plug-in connection), Connection design in TOP direction
Protocol	Other bus systems
Input/Output	
Input	Digital inputs (according to EN61131-2 Type 1)
Input current	≥ 2.3 mA (Digital inputs, high level) 3.7 mA (Digital inputs) ≤ 1.1 mA (Digital inputs, low level)
Input current at signal 1	3.7 mA
Input delay	5000 μs (falling edge) 5000 μs (rising edge)
Input voltage	24 V DC (Digital inputs) 0 - 8 V (Digital inputs, low level) 14 - 30 V (Digital inputs, high level)
Load current	Not specified by plug manufacturer
Number of inputs (digital)	20
Number of outputs (digital)	0
Output current	0 A
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Between Digital inputs: no
Design verification	
Equipment heat dissipation, current-dependent Pvid	0.25 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	3.045 W
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.
10.3 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.
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])

Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type (supply voltage)		DC
Number of digital inputs		20
Number of digital outputs		0
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	3.7
Permitted voltage at input	V	0 - 30
Type of voltage (input voltage)		DC
Type of digital output		None
Output current	Α	0
Permitted voltage at output	V	0 - 0
Type of output voltage		DC
Short-circuit protection, outputs available		No
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 parallel		0
Number of HW-interfaces wireless		0
Number of HW-interfaces USB		0
Number of HW-interfaces other		1
With optical interface		No
Supporting protocol for EtherCAT		No
Supporting protocol for TCP/IP		No

Supporting protect for LEAM Supporting protect for INTERIBUS Subsequent Suppo	Supporting protocol for PROFIBUS		No
Supporting proteo for NEIBBUS No Supporting proteo for ASI No Supporting proteo for KEX No Supporting proteo for Madus No Supporting proteo for Dest-Highway No Supporting proteo for SUDDIT No Supporting proteo for PROFINET IO No			
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Certified for UL hazardous location class II No Certified for UL hazardous location class III No	Explosion safety category for dust		None
Certified for UL hazardous location class III No	Certified for UL hazardous location class I		No
	Certified for UL hazardous location class II		No
Certified for UL hazardous location division 1	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)			
Certified for UL hazardous location group E (metal dusts) No			No
Certified for UL hazardous location group F (carbonaceous dusts) No	- 1		
Certified for UL hazardous location group G (non-conductive dusts)	Certified for UL hazardous location group G (non-conductive dusts)		No

Width	mm	80.3
Height	mm	16.8
Depth	mm	104.2