

LOGICX0 SERIES

ARTICLE PROPERTIES

PROGRAMMING ENVIRONMENT	CODESYS platform, support IEC 61131-3(ST/LD/FBD/SFC/CFC/IL)
HARDWARE ENVIRONMENT	High precision real-time operating system
MEMORY	2 MB for program, 512 KB for data, 128 KB for power-off persistence retain
LOCAL INPUT	8 points PNP/NPN digital inputs, 18-30 V, typical current 4 mA
LOCAL OUTPUT	8 points NPN or PNP digital output, max. current 0.5 A, resistive load output frequency: NPN type - 100 kHz, PNP type - 20 kHz

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	35 mm rail-tray
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ELECTRICAL DATA

OPERATING VOLTAGE	21.6 ... 26.4 V DC
RATED OPERATING CURRENT	1 A
FUNCTION INDICATOR	green/red LED
USE ENVIRONMENT	no corrosive, combustible gas, conductive dust (dust) is not serious occasions
ALTITUDE	up to 2000 m (80 kPa)
POLLUTION LEVEL	level 2
ANTI-INTERFERENCE DEGREE	IEC 61000-6-2
EMC ANTI-INTERFERENCE LEVEL	IEC 61131-2
OVERCURRENT PROTECTION DEVICE	2.5 A fuse
HYSTERESIS	3 ... 15 %
TEMPERATURE DRIFT	±10 %
SHORT-CIRCUIT PROTECTION	yes
OVERLOAD RESISTANCE	yes
REVERSE POLARITY PROTECTION	yes

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP20	VIBRATION RESISTANCE (EN 60068-2-27)	55 Hz, 1 mm
STORAGE TEMPERATURE	-20 ... +70 °C	SHOCK RESISTANCE (EN 60068-2-6)	30g/11 ms
TRANSPORT TEMPERATURE	-40 ... +70 °C		
OPERATING TEMPERATURE	-20 ... +55 °C		
RELATIVE HUMIDITY	< 90 %RH, no condensation		

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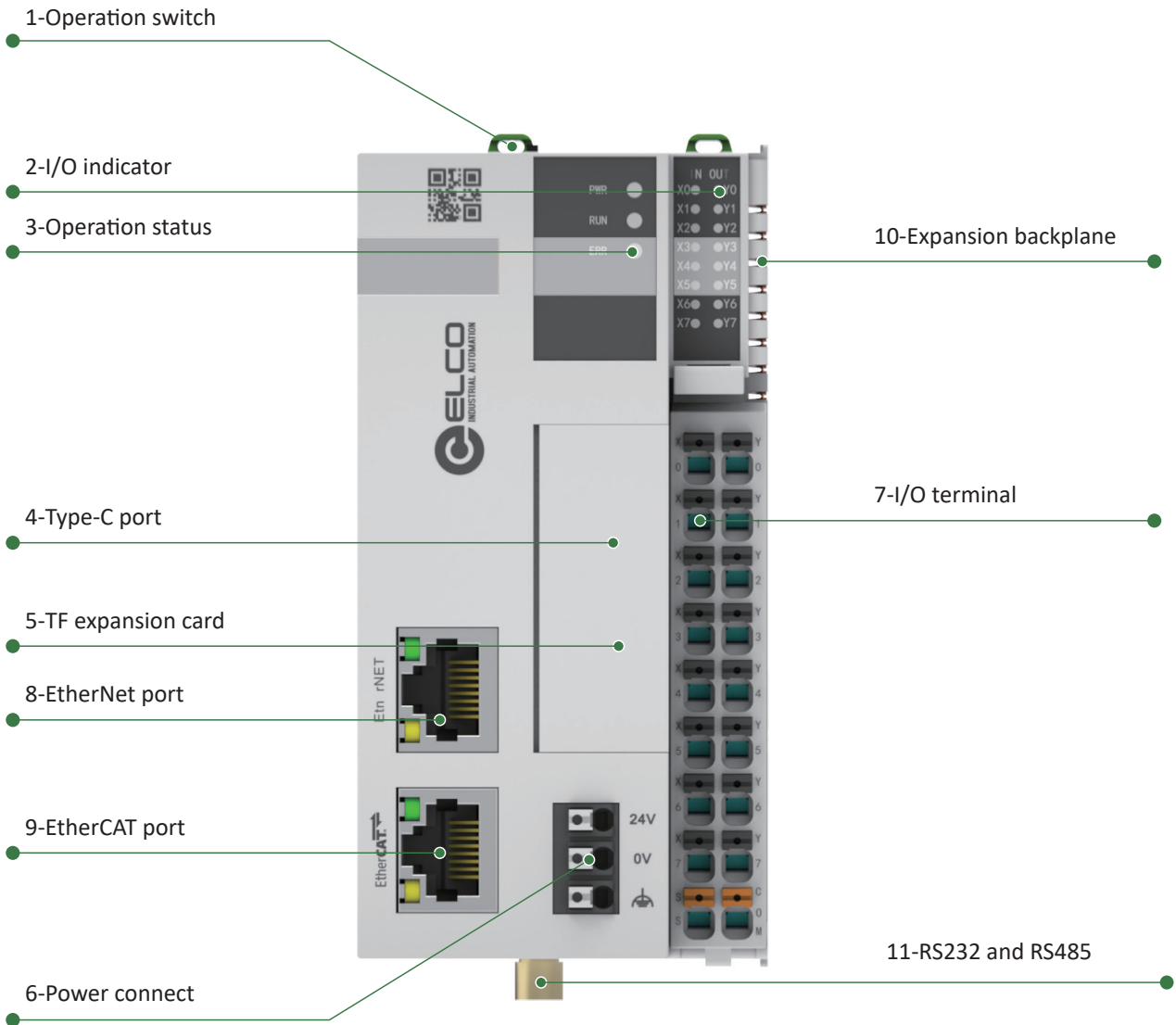
STANDARDS AND DIRECTIVES

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR EN 61131-2:2007 Clause 8, 9
EN 55011:2016+A2:2021

APPROVALS


CE RoHS

PRODUCT STRUCTURE



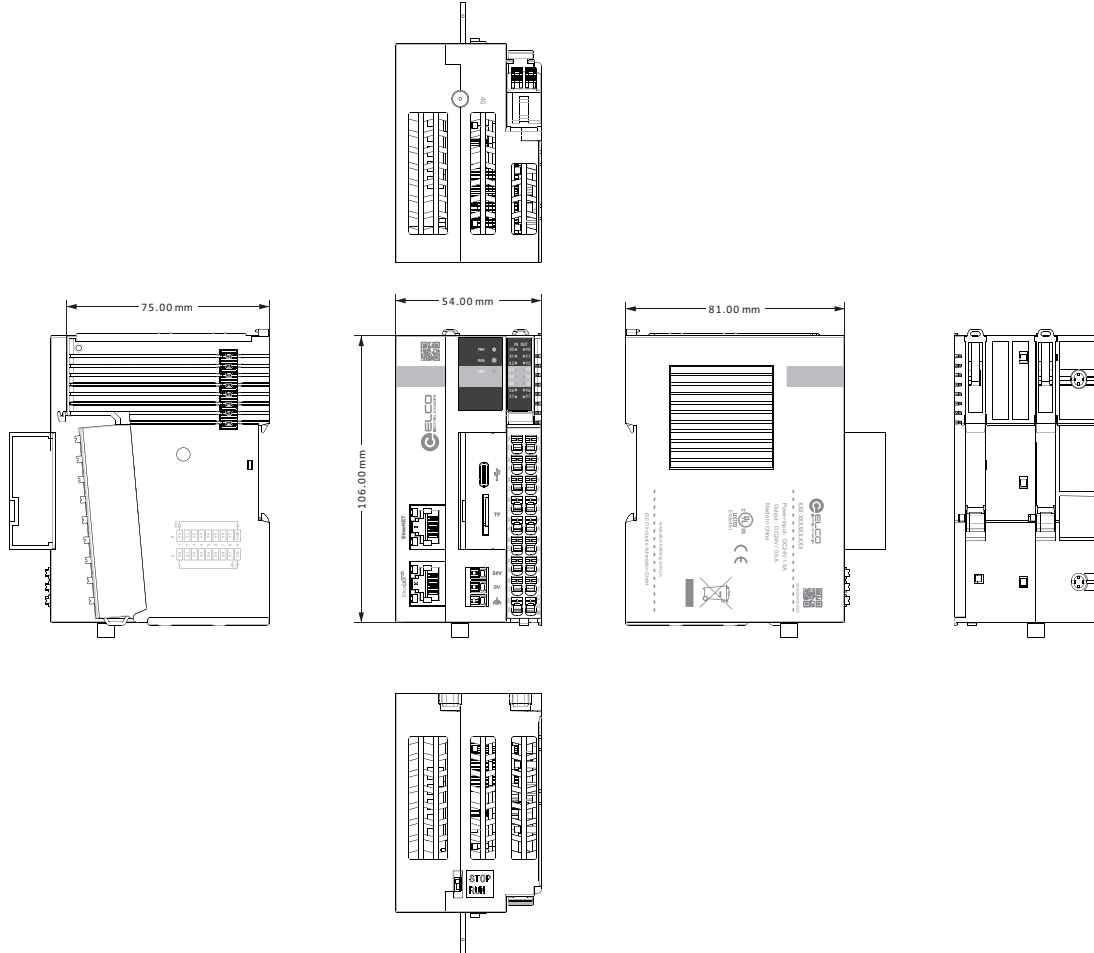
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PRODUCT STRUCTURE

Item	Port type	Identification	Define	Indicator light color	Clarification
1	operation switch	RUN/STOP	operation mode switching		
2	I/O indicator	IN/OUT	I/O status display	green	ON: indicates that the input or output is valid OFF: indicates invalid inputs or outputs
3	operation status	PWR	the power supply is normal	green	ON: indicates normal power supply OFF: indicates abnormal power supply
		RUN	running normally	green	ON: indicates that the user program is running OFF: indicates that the user program is stopped
		ERR	run-time error (in computing)	red	OFF: indicates no serious error Flashing: indicates a serious error has occurred
		REV*3	reserve	-	
4	type-C port		communication with PC		-
5	TF expansion card	TF	firmware upgrade	-	
6	power connect	+24 V	DC 24 V power positive	-	-
		0 V	DC 24 V power supply negative	-	-
		PE		-	-
7	I/O terminal	-	8 inputs, 8 outputs	-	
8	EtherNet port	EtherNet	EtherNet communication RJ45 interface	-	100 Mbps, support Modbus-TCP, OPC-UA, and User defined protocol communication
9	EtherCAT port	EtherCAT	for EtherCAT communication	-	support 72 slaves connections
10	expansion backplane		expansion backplane for expanded I/O		support max. 16 I/O modules extention
11	RS232 and RS485 terminal	RS232/485	Supports Modbus RTU/ASCII, with baud rates ranging 2400-115200bps, parameter configuration for checksum and stop bit, with a maximum of 20 slave stations		RS485: 4800 ... 115200 bps, 2-wire half duplex RS232: 4800 ... 115200 bps, R, T, GND 3-wire full duplex

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DIMENSIONS



TYPE CODE

Logic	X0	-	0	A	N	E
	<p>Type code</p> <p>X0: series X0</p>			<p>BODY I/O Function code</p> <p>A: 8DI + 8DO B: 12D1 + 4D0 C: 8DI + 4D0 + 2HDO (NPN) D: 6DI + 2D0 + 4HDI (NPN) E: 6D1 + 2D0 + 4HDO (NPN) F: 6D1 + 2D0 + 2HDI + 2HDO (NPN) G: 8D1 + 4D0 + 2A1 (+5 V, +10 V, 0-20 mA, 4-20 mA)</p>	<p>Type of digital output : NPN/PNP</p> <p>N: NPN type DO output P: PNP type DO output</p>	
<i>ELCO logic series</i>			<p>Quantity of pulse signals for servo axes</p> <p>0: no extended I/O by backplane 1: with extended I/O by backplane</p>			<p>Fieldbus type</p> <p>E: EtherCAT P: PROFINET C: CANopen</p>

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BODY I/O FUNCTION A

Article number	Digital input on body (24 V, 50 mA)	Digital output on body (24 V, max. 200 mA)	I/O extension		
LogicX0-0AN-*	8	8	/		
LogicX0-1AN-*	8	8	16		
LogicX0-0AP-*	8	8	/		
LogicX0-1AP-*	8	8	16		

BODY I/O FUNCTION B

Article number	Digital input on body (24 V, 50 mA)	Digital output on body (24 V, max. 200 mA)	I/O extension		
LogicX0-0BN-*	12	4	/		
LogicX0-1BN-*	12	4	16		
LogicX0-0BP-*	12	4	/		
LogicX0-1BP-*	12	4	16		

BODY I/O FUNCTION C

Article number	Digital input on body (24 V, 50 mA)	Digital output on body (24 V, max. 200 mA)	I/O extension	High-speed output on body (100 KHz)	
Logic X0-0CN-*	8	4	/	2	
Logic X0-1CN-*	8	4	16	2	

BODY I/O FUNCTION D

Article number	Digital input on body (24 V, 50 mA)	Digital output on body (24 V, max. 200 mA)	I/O extension	High-speed counter on body (100 KHz)	
LogicX0-0DN-*	6	2	/	4	
LogicX0-1DN-*	6	2	16	4	

BODY I/O FUNCTION E

Article number	Digital input on body (24 V, 50 mA)	Digital output on body (24 V, max. 200 mA)	I/O extension	High-speed output on body (100 KHz)	
LogicX0-0EN-*	6	2	/	4	
LogicX0-1EN-*	6	2	16	4	

* E - EtherCAT P - PROFINET C - CANopen