

lumbergautomation A BELDEN BRAND



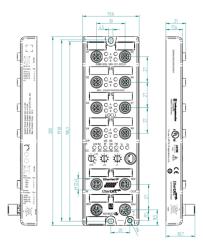
Product: 0980 ESL 393-121-DCU1 ☑

LioN-P, Multiprotocol Distributed Control Unit, 8DI 8DO (8x M12), M12 L-coded Power Supply, Metal, 60 mm

Product Description

LioN-P, Distributed Control Unit, LDmicro Programmable (Ladder) Multiprotocol module (PROFINET, EtherNet/IP and EtherCAT), industrial metal housing, 60 mm, up to IP69K, 8 digital input and 8 digital output channels (2 A) with galvanic isolation, 8 x M12 A-coded I/O connection, 5-poles, 2 x M12 D-coded bus connection, 4-poles, 2 x M12 L-coded power supply connection, 5-poles

Technical Drawing



Technical Specifications

Product Description

Product Family:	I/O Systems: Active - Standalone
Product Sub Family:	LioN-P
Item Description:	0980 ESL 393-121-DCU1
Part Number:	934879005
Device Type:	Distributed Control Unit
Protocol:	Multiprotocol
I/O Function:	8DI 8DO
Bus Connection:	M12 LAN, 4-poles, D-coded
Power Connection (System Supply):	M12 Power, 5-poles, L-coded
I/O Connection:	M12, 5-poles, A-coded
I/O Type:	Digital Input and Digital Output

General Data

Housing Material:	Metal, Zinc Die-cast
Housing Plating:	Nickel, matt
Housing Color:	Grey Metallic
Protection Degree / IP Rating:	IP65, IP67, IP69K
Potted:	Yes
Dimensions (W x H x D):	60 mm x 31 mm x 200 mm

Weight:	500 g
Ambient Temperature (Operation):	-20 °C to 70 °C
Ambient Temperature (Storage/Transport):	-25 °C to 85 °C
Permissible Humidity (Operation):	5 % 95 % (For UL applications max. 80 %)
Permissible Humidity (Storage/Transport):	5 % 95 % (For UL applications max. 80 %)
Air Pressure (Operation):	80 kPa 106 kPa (up to 2000 m above sea level)
Air Pressure (Storage/Transport):	80 kPa 106 kPa (up to 2000 m above sea level)
Flammabilty Class:	UL 94 (IEC 61010)
Protection Class:	III, IEC 61140, EN 61140, VDE 0140-1
Pollution Degree:	3 acc. to EN 60664-1, VDE 0110-1
Vibration Resistance:	15 g / 5 -500 Hz
Shock Resistance:	50 g / 11ms
Mean Time To Failure (MTTF):	633 years. acc. to Telcordia SR-332 (2011) 20°C
Contact Base Material:	M12, D-coded, CuSn, Gold-plated M12 Power, L-coded, CuNi, Gold-plated
Contact Bearer Material:	PA
O-Ring Material:	FKM
Mounting:	2 hole screw mounting. Use standard M4 x 25 / 30 screws with toothed lock washer (as per DIN 125) and self-locking nuts.
Fastening Torque (Fixing Screw):	M4: 1 Nm
Fastening Torque (Ground Connection (FE)):	M4: 1 Nm
Fastening Torque (Bus Connection):	M12: 0.5 Nm
Fastening Torque (Power Connection):	M12: 0.5 Nm
Fastening Torque (I/O Connection):	M12: 0.5 Nm
Included in Delivery:	Attachable Labels: 15x, Sealing Caps: 5x M12

Control System (DCU)

Programming Tool:	LDmicro
Programming Language:	LAD: Ladder Logic
Program Deployment:	via Webserver / HTTP
Processor:	200 MHz RISC CPU
Performance:	min. 10 ms
Program Memory:	max. 99 Rungs / max. 99 Bit Variables / max. 99 Integer Variables
Flash Memory:	16 MB
Persistent Memory:	No
Realtime Clock:	No
Operation Modes:	I/O Slave/Device, Mixed DCU/PLC Mode, Standalone DCU Mode
Communication Interface:	Ethernet/TCP
Webserver:	Integrated

PROFINET

Protocol:	PROFINET
Connection:	M12 LAN, 4-poles, D-coded
Number of Connections:	2
Specification:	V2.3X
Conformance Class:	C
Performance Class:	RT (switch supports IRT)
Netload Class:	II
Transmission Rate:	Fast Ethernet (10/100 Mbit/s), Full Duplex
Transmission Method:	100 BASE-TX, with auto negotiation and auto crossing
Cycle Time / Update Rate:	min. 1 ms
Addressing:	DCP
Fast Startup (FSU):	Supported, ≤ 1000 ms
Media Redundancy Protocol (MRP):	Supported, MRP client
Shared Device:	Not Supported
Topology Detection:	LLDP, SNMP V1
Easy Device Replacement:	Supported, based on LLDP
Supported Network Protocols (Other):	ARP, HTTP, Ping, SNMP V1, TCP/IP

EtherNet/IP

Protocol:	EtherNet/IP
Connection:	M12 LAN, 4-poles, D-coded
Number of Connections:	2
Specification:	CIP V3.1x, EIP Adaption of CIP V1.1x
Transmission Rate:	Fast Ethernet (10/100 Mbit/s), Full Duplex
Transmission Method:	100 BASE-TX, with auto negotiation and auto crossing
Cycle Time / Requested Packet Interval (RPI):	min. 1 ms
Addressing:	BootP, DHCP, Rotary Address Switches
Address Switches Range:	0 to 255 dec
Connection Types:	Exclusive Owner, Input Only, Listen Only
CIP Msg Connection Limit:	6
CIP I/O Connection Limit:	3
Device Level Ring (DLR):	Supported, beacon based
Quick Connect (QC):	Supported, ≤ 500 ms
Supported Network Protocols (Other):	ACD, ARP, BootP, DHCP, HTTP, IGMP, Ping, TCP/IP

EtherCAT

Protocol:	EtherCAT
Connection:	M12 LAN, 4-poles, D-coded
Number of Connections:	2
Specification:	ETG.1000 V1.2
Transmission Rate:	Fast Ethernet (10/100 Mbit/s), Full Duplex
Transmission Method:	100 BASE-TX, with auto negotiation and auto crossing
Cycle Time / Update Rate:	min. 250 µs
Addressing:	Auto-increment addressing, fixed position addressing
Mailbox Protocols:	CANopen over EtherCAT (CoE), File access over EtherCAT (FoE), Ethernet over EtherCAT (EoE)
Supported Network Protocols (Other):	Over EoE: HTTP, Ping, TCP/IP

Power Supply

Connection Module Supply Voltage:M12 Power, 5-poles, L-codedNumber of Connections:2Current Carrying Capacity of Connector:max. 16 AModule Supply Voltage (Nominal):24 V DC (SELV/PELV)Module Supply Voltage (Range):18 V DC to 30 V DCCurrent Consumption (typ.):120 mA (at 24 V DC)Reverse Polarity Protection:YesStatus Indicator:LED greenDiagnostic Indicator:LED redConnection Sensor Supply Voltage:M12 Power, 5-poles, L-codedCurrent Carrying Capacity of Connector:max. 16 ASensor Supply Voltage (Nominal):24 V DC (SELV/PELV)Sensor Supply Voltage (Nominal):24 V DC (SELV/PELV)Sensor Supply Voltage (Range):18 V DC to 30 V DCReverse Polarity Protection:YesStatus Indicator:LED greenDiagnostic Indicator:YesStatus Indicator:YesSensor Supply Voltage (Range):18 V DC to 30 V DCReverse Polarity Protection:YesStatus Indicator:LED greenDiagnostic Indicator:Yes (Nominal):Current Carrying Capacity of Connector:max. 16 AActuator Supply Voltage (Nominal):24 V DC (SELV/PELV)Actuator Supply Voltage (Nominal):24 V DC (SELV/PELV)Actuator Supply Voltage (Nominal):24 V DC (SELV/PELV)Actuator Supply Voltage (Range):18 V DC to 30 V DCReverse Polarity Protection:YesStatus Indicator:LED greenDiagnostic Indicator:YesStatus Indicator:		
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Status Indicator: LED green	Actuator Supply Voltage (Range):	18 V DC to 30 V DC
	Reverse Polarity Protection:	Yes
Diagnostic Indicator: LED red	Status Indicator:	LED green
	Diagnostic Indicator:	LED red

Digital Input Channels

max. 8, fixed

Connection:	M12, 5-poles, A-coded
Number of Ports:	4x, X1 to X4
Channel Type:	Type 3 acc. to IEC 61131-2
Input Wiring:	2-, 3-, 4-wire
Nominal Voltage:	24 V DC via US (module power supply)
Nominal Current:	typ. 5 mA
Sensor Current Supply:	max. 200 mA per port (at 30°C)
Sensor Type:	PNP
Input Voltage Range "0" signal:	-3 V DC+5 V DC
Input Voltage Range "1" signal:	11 V DC 30 V DC
Input Filter Time:	3 ms, fixed
Protective Circuit:	Electronicaly: Overload protection, short-circuit protection
Status Indicator:	LED white or yellow per channel
Diagnostic Indicator:	LED red per port

Digital Output Channels

Number of Digital Output Channels:	max. 8, fixed
Connection:	M12, 5-poles, A-coded
Number of Ports:	4x, X5 to X8
Channel Type:	p-switching
Output Wiring:	2-, 3-wire
Nominal Voltage:	24 V DC via UL (actuator power supply)
Output Current per Channel:	max. 2 A
Output Current per Module:	max. 9 A
Galvanically Isolated:	Yes
Protective Circuit:	Electronicaly: Overload protection, short-circuit protection
Overload Behavior:	Manual restart
Status Indicator:	LED white or yellow per channel
Diagnostic Idicator:	LED red per channel

Electrical Isolation

US (System Supply Voltage) / FE:	500 V DC
US / UL (Actuator Supply Voltage):	500 V DC
UL / FE:	500 V DC
Bus connection / FE:	2000 V DC

EMC Conformance

EMC Directive:	2014/30/EU
EN 61000-4-2 Electrostatic Discharge (ESD):	Criterion B; 4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 Electromagnetic Field:	Criterion A; Field intensity: 10 V/m
EN 61000-4-4 Fast Transients (Burst):	Criterion B, 2 kV
EN 61000-4-5 Surge Voltage:	Criterion B; DC supply lines: ±0.5 kV/±0.5 kV (symmetrical/asymmetrical); For I/O ports with cables ≤ 30m
EN 61000-4-6 Conducted immunity:	Criterion A; Test voltage 10 V
EN 55022 Radio Interference Properties:	Class A

Safety & Environmental Compliance

CE:	Yes
RoHS Compliant:	Yes
China RoHS-Compliant:	Yes

Approvals

UL:	cULus Listed, UL 61010-1
UL-File:	E230848
CSA:	Yes, via UL
PNO:	Yes
ODVA:	Yes
ETG:	Yes

Protection Degree / IP Rating Note:	*only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
System Power Supply Connection Note:	*do not connect / disconnect under voltage!
Update and Revision:	Revision Number: 0.28 Revision Date: 11-28-2019

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