



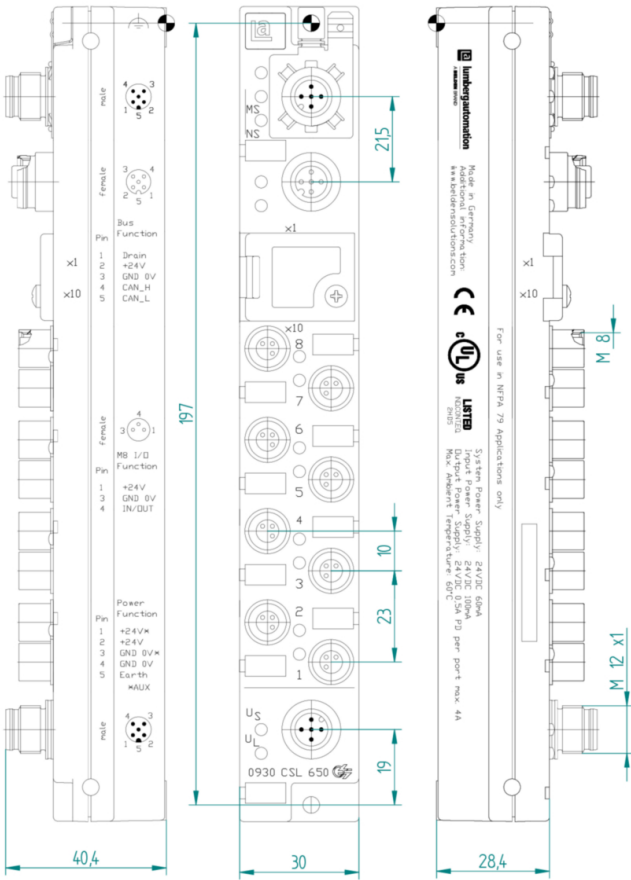
**Product:** [0930 CSL 650](#)

LioN-S, CANopen I/O Device, 8DIO (8x M8), M12 A-coded Power Supply, Plastic, 30 mm

**Product Description**

LioN-S M8-30, Plastic, CANopen, M12 Bus Connector, A-coded, 8 DIO, M8 3-pole

**Technical Drawing**



**Technical Specifications**

**Product Description**

Brand:	Belden
Product Family:	I/O Systems: Active - Standalone
Product Sub Family:	LioN-S
Item Description:	0930 CSL 650
Part Number:	84418
Device Type:	I/O Module

Protocol:	CANopen
I/O Function:	8DIO
Bus Connection:	M12, 5-poles, A-coded
Power Connection (System Supply):	M12, 5-poles, A-coded
I/O Connection:	M8, 3-poles, A-coded
I/O Type:	Digital In-/Output (Universal)

## General Data

Housing Material:	PBT + ASA
Housing Color:	Black
Protection Degree / IP Rating**:	IP67
Potted:	No
Dimensions (W x H x D):	30 mm x 40 mm x 205 mm
Weight:	200 g
Ambient Temperature (Operation)*:	-10 °C to 60 °C
Vibration Resistance:	15 g / 5 -500 Hz
Shock Resistance:	50 g / 11ms
Mounting:	2 hole screw mounting. Use standard M4 x 25 / 30 / 40 (lateral) 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):	M8: 0.3 Nm
Included in Delivery:	Attachable Labels: 10x, Sealing Caps: 2x M8

## CANopen

Connection:	M12, 5-poles, A-coded
Number of Connections:	2
Device Profile:	CiA 401
Communication Profile:	CiA 301
Transmission Rate:	10 kbps ... 1 Mbps
Transmission Rate Adjustment:	Automatic
Addressing via Rotary Address Switches:	1 ... 127 dec
Emergency Messages (EMCY):	Supported
Modular EDS File:	Not supported

## Power Supply

Connection Module Supply Voltage:	M12, 5-poles, A-coded
Number of Connections:	2
Current Carrying Capacity of Connector:	max. 4 A
Module Supply Voltage (Nominal):	24 V DC (SELV/PELV)
Module Supply Voltage (Range):	19 V DC to 30 V DC
Current Consumption (typ.):	65 mA (at 24 V DC)
Reverse Polarity Protection:	Yes
Status Indicator (System Supply):	LED green
Diagnostic Indicator:	No
Connection Sensor Supply Voltage:	M12, 5-poles, A-coded
Number of Connections:	1
Current Carrying Capacity of Connector:	max. 4 A
Sensor Supply Voltage (Nominal):	24 V DC (SELV/PELV)
Sensor Supply Voltage (Range):	19 V DC to 30 V DC
Reverse Polarity Protection:	Yes
Status Indicator (Sensor Supply):	LED green
Diagnostic Indicator:	No
Connection Actuator Supply Voltage:	M12, 5-poles, A-coded
Number of Connections:	1
Current Carrying Capacity of Connector:	max. 4 A

Actuator Supply Voltage (Nominal):	24 V DC (SELV/PELV)
Actuator Supply Voltage (Range):	19 V DC to 30 V DC
Reverse Polarity Protection:	Yes
Status Indicator (Actuator Supply):	LED green
Diagnostic Indicator:	No

## Digital Input Channels

Number of Digital Input Channels:	max. 8, universal
Connection:	M8, 3-poles, A-coded
Number of Ports:	8x, 1 to 8
Channel Type:	Type 3 acc. to IEC 61131-2
Input Wiring:	2-, 3-wire
Nominal Voltage:	24 V DC via US (module power supply)
Nominal Current:	typ. 5 mA
Sensor Current Supply:	max. 100 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:	1 ms, fixed
Protective Circuit:	Electronically: Overload protection, short-circuit protection
Status Indicator (Inputs):	LED yellow per channel
Diagnostic Indicator:	LED red per port

## Digital Output Channels

Number of Digital Output Channels:	max. 8, universal
Connection:	M8, 3-poles, B-coded
Number of Ports:	8x, X1 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. 0,5 A
Output Current per Module:	max. 4 A
Galvanically Isolated:	No
Protective Circuit:	Electronically: Overload protection, short-circuit protection
Overload Behavior:	Auto off and on switching / Manual restart
Status Indicator (Outputs):	LED yellow per channel
Diagnostic Indicator:	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:	500 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: $\pm 0.5$ kV/ $\pm 0.5$ kV (symmetrical/asymmetrical); For I/O ports with cables $\leq 30$ m
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

## Approvals

UL:	cULus Listed, UL 508
UL-File:	E230848

### Notes

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: 0.42 Revision Date: 05-24-2023

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