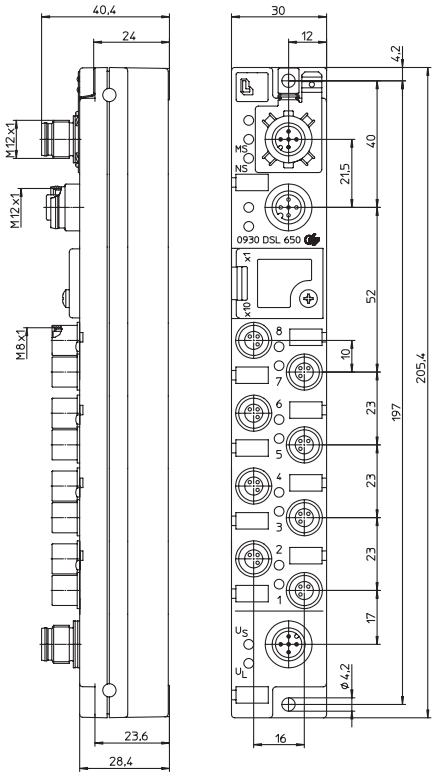
lumbergautomation
A BELDEN BRAND

DeviceNet I/O Modules with 8-Digital Inputs and 8-Digital Outputs

0930 DSL 650

8 IN / 8 OUT (universal)

DeviceNet device with 8 digital I/O channels, channels can be used universally as inputs or outputs, M8 socket, 3 poles, rotary switches for addressing, M12 bus connection, M12 actuator supply.



Bit Assignment

Bit	7	6	5	4	3	2	1	0
M8 Input								
Byte 0	8	7	6	5	4	3	2	1
Diagnostic								
DIA-Byte	S8	S7	S6	S5	S4	S3	S2	S1
S1...8: Socket Status 1...8								
M8 Output								
Byte 0	8	7	6	5	4	3	2	1

Diagnostic Indication

LED	Indication	Condition
1...8	yellow	channel status
1...8	red	periphery fault
Us	green	sensor/system power supply
UL	green	actuator power supply
MS	green	device is ready for operating
(Module status)	green flashing	wrong configuration
	red	unrecoverable fault
	red flashing	recoverable fault
	red/green flashing	self test is running
NS	green	online, communication with PLC
(Network status)	green flashing	online, no communication with PLC
	red flashing	time-out state of one or more I/O connections
	red	failed communication device, BUS-OFF Status, duplicate MAC-ID

Pin Assignment

Bus connection M12

1 = Drain
2 = 24 V [1]
3 = GND (0 V) [1]
4 = CAN_H
5 = CAN_L
housing = earth

Actuator supply M12

1 = +24 V [2]
2 = + 24 V [3]
3 = GND (0 V) [2]
4 = GND (0 V) [3]
5 = earth

Input/Output M8

1 = +24 V
3 = GND (0 V)
4 = In

1 = system: galvanically separated to sensors/actuators
2 = actuators
3 = sensors

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Technical Data

Environmental	
Degree of protection	IP 67
Operating temperature range	-10°C (+14°F) to +60°C (+140°F)
Mechanical	
Weight	200 g
Housing material	PBT
Bus system	**DeviceNet**
Transmission rate	max. 500 kBaud
Address range	0–63 dec
Rotary address switches	0–63 dec
Default address	63 dec
System power supply	
Rated voltage	24 V DC
Voltage range	11–30 V DC
Power consumption	60 mA
Reverse polarity protection	yes
Input power supply	**Us**
Voltage range min.	(U_{System} - 1.5 V)
Sensor current	100 mA (at T_{amb} 30°C) per socket
Short circuit-proof	yes
Indication	LED green
Inputs	**Type 3 acc. to IEC 61131-2**
Rated input voltage	24 V DC
Channel type N.O.	p-switching
Number of digital channels	max. 8
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel
Output power supply	**UL**
Rated voltage	24 V DC
Voltage range	19–30 V DC
Reverse polarity protection	yes/antiparallel diode
Indication	LED green
Outputs	
Rated output current	0.5 A per channel
Short circuit-proof	yes
Max. output current	4 A per module
Overload-proof	yes
Number of digital channels	max. 8
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel
Included in delivery/accessories	
Dust covers M8	2 pieces
Attachable labels	10 pieces

NOTE: EDS-files can be downloaded from our website **http://www.beldensolutions.com/en/Service/Downloadcenter/Software_Lumberg/index.phtml**

Part Number
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The application of these products in harsh environments should always be checked before use.
Specifications subject to alteration.