



DL-DN1

DeviceNet™ Compatible Communication Unit

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SPECIFICATIONS

DeviceNet™ specifications Network power supply 11 to 25 VDC (supplied from DeviceNet™ communication power supply)					
Indicator Sensor communication indicator: 2-colour (green/red) LED, Module status indicator: 2-colour (green/red) LED, Sensor communication indicator: 2-colour (green/red) LED, Module status indicator: 2-colour (green/red) LED, Sensor communication indicator: 2-colour (green/red) LED, Module status indicator: 2-colour (green/red) LED, Sensor communication indicator: 2-colour (green/red) LED, Module status indicator: 2-colour (green/red) LED, Sensor communication indicator: 2-colour (green/red) LED, Module status indicator: 2-colour (green/red) LED, Module stat	Model				DL-DN1 ^{*1}
Sensor communication indicator: 2-colour (green/red) LED Sensor communication indicator: 2-colour (green/red) LED Sensor communication indicator: 2-colour (green/red) LED Sensor amplifiers with D-bus support ² Sensor amplifiers with D-bus support ² Up to 15 units Connectable sensor units PowiceNet TM specifi cations PowiceNet TM specific cations PowiceNet TM specific cations PowiceNet TM specific cations PowiceNet	DeviceNet TM specifi cations	Network power supply			11 to 25 VDC (supplied from DeviceNet TM communication power supply)
Sensors Number of connectable sensor units DeviceNet TM specifications Address setting Baud rate (automatically switching) Baud rate (automatically switc	Indicator				
Number of connectable sensor units DeviceNetTM specifications	Sensor connection specifications				Sensor amplifiers with D-bus support ²
Address setting		connectable			Up to 15 units
Baud rate (automatically switch	DeviceNet TM specifi cations	Compliant functions			Remote I/O communication (polling) Explicit messaging
Maximum cable length Soo kbps		Address setting			0 to 63 (PGM compatible)
Thin cable 250 kbps thick cable 250 m 125 kbps thick cable 500 m 125 kbps thick cable 500 m 125 kbps thick cable 100 m 125 kbps thick cable 100 m 125 kbps 100 m 125 kbps 100 m 125 kbps 100 m 100		Baud rate (automatically switched)			500 kbps/250 kbps/125 kbps
250 kbps		2	500 kbps	thick cable	100 m
thin cable 100 m 125 kbps thick cable 500 m thin cable 100 m Power voltage Power consumption Environmental resistance Pollution degree Ambient temperature thin cable 500 m 20 to 30 VDC, including ripple (P-P) 10 % (supplied from the connected sensor amplifiers) 660 mW or less (at 30 V, 22 mA max.) 2 Ambient temperature 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				thin cable	
thick cable 500 m thin cable 100 m Power voltage Power consumption Environmental resistance Pollution degree Ambient temperature thick cable 500 m 20 to 30 VDC, including ripple (P-P) 10 % (supplied from the connected sensor amplifiers) 660 mW or less (at 30 V, 22 mA max.) 2 Ambient temperature 2 20 to +55 °C (No freezing)				thick cable	250 m
thin cable 100 m Power voltage 20 to 30 VDC, including ripple (P-P) 10 % (supplied from the connected sensor amplifiers) Power consumption 660 mW or less (at 30 V, 22 mA max.) Environmental resistance Pollution degree 2 Ambient temperature -20 to +55 °C (No freezing)				thin cable	100 m
Power voltage 20 to 30 VDC, including ripple (P-P) 10 % (supplied from the connected sensor amplifiers) Power consumption 660 mW or less (at 30 V, 22 mA max.) Environmental resistance Pollution degree 2 Ambient temperature -20 to +55 °C (No freezing)				thick cable	500 m
Power consumption 660 mW or less (at 30 V, 22 mA max.) Environmental resistance Pollution degree 2 Ambient temperature -20 to +55 °C (No freezing)				thin cable	100 m
Environmental resistance Pollution degree 2 Ambient temperature -20 to +55 °C (No freezing)	Power voltage				20 to 30 VDC, including ripple (P-P) 10 % (supplied from the connected sensor amplifiers)
Ambient temperature -20 to +55 °C (No freezing)	Power consumption				660 mW or less (at 30 V, 22 mA max.)
	Environmental resistance	Pollution degree			2
Relative humidity 35 to 85 % RH (No condensation)		Ambient temperature			-20 to +55 °C (No freezing)
		Relative humidity			35 to 85 % RH (No condensation)
Vibration resistance 10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions		Vibration resistance			10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions
Materials Main unit case and dust cover: Polycarbonate, DeviceNet TM connector: Polyamide (plug), PUT (socket)	Materials				Main unit case and dust cover: Polycarbonate, DeviceNet TM connector: Polyamide (plug), PUT (socket)
Weight Approx. 80 g	Weight				Approx. 80 g

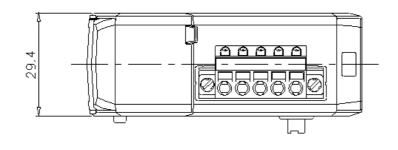
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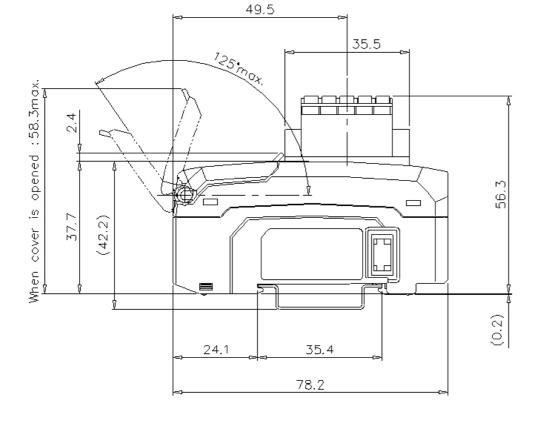
¹¹ For connecting with sensor, please refer to the user's Manual ² "D-bus" is the name of KEYENCE's wiring-saving system for sensor amplifiers.

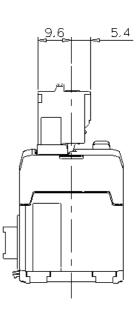


Dimensions









^{*} Download CAD file or product manual for larger image/text and more detail.