



DL-EC1A

Ethercat supporting communication unit



Specifications

Model		DL-EC1A
Ethernet specifications	Compliant standards	IEEE802.3u (100BASE-TX)
	Transmission speed	100 Mbps (100BASE-TX)
	Transmission interface	Category 5e or higher STP cable
	Distance between nodes	100 m 3937.01'
	Communication port	RJ-45 x 2
EtherCAT communication specifications	Compatible functions	Process data object communication (cyclic communication) Mailbox communication (message communication) CoE compatible Explicit Device Identification
	Conformance test version	Complies with V2.0.42
Sensor connection specifications	Connectable sensors	Sensor amplifiers with D-bus support*1
	Number of connectable sensor units	15 units max.*2
Indicator lamps		Power indicator (PWR): Green LED RUN indicator (RUN): Green LED ERR indicator (ERR): Red LED Sensor communication indicator (D-bus): 2-color (green/red) LED Link/activity indicator: Green LED
Power voltage		20 to 30 VDC, including ripple (p-p) of 10 % supplied from the connected sensor amplifiers
Power consumption		2,100 mW or less (at 30 V, 70 mA max.)
Environmental resistance	Pollution degree	2
	Ambient temperature	-20 to +55 °C -4 to 131 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06" , 2 hours in each of the X, Y, and Z directions
Material		Main unit: Polycarbonate
Weight		Approx. 70 g (including connectors)

*1 D-bus is the name of KEYENCE's wiring-saving system for sensor amplifiers.

*2 This varies depending on the connected sensor amplifiers.

Dimensions

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

dl-ec1a_dimension_01.gif

