



## DL-EP1

EtherNet/IP™ Compatible Communication Unit





\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

## **Specifications**

| Model                                  |  | DL-EP1*1  |
|--|--|---|
| Indicator                              |  | Link/activity indicator (LINK/ACT): Green LED, Module status indicator (MS): 2-colour (green/red) LED, Network status indicator (NS): 2-colour (green/red) LED, Sensor communication indicator (D-bus) 2-colour (green/red) LED |
| Ethernet specifications                | Compliant standards  | IEEE802.3 (10BASE-T)/IEEE802.3u (100BASE-TX)  |
|  | Transmission speed   | 10Mbps (10BASE-T)/100Mbps (100BASE-TX)  |
|  | Transmission interface                                     | STP cable or Category 3 or higher UTP cable (10BASE-T)/STP cable or Category 5 or higher UTP cable (100BASE-TX)   |
|  | Maximum cable length                                       | 100 m (Distance between DL-EP1 and Ethernet switch)   |
| Sensor<br>connection<br>specifications | Connectable sensors  | Sensor amplifiers with D-bus support *2   |
|  | Number of connectable sensor units                         | Up to 15 units  |
| Ethernetspecifications                 | Maximum number of connectable hubs                         | 4 (10BASE-T)/2 (100BASE-TX)   |
| EtherNet/IP™specifications             | Supported functions  | Cyclic communication (Implicit messaging) Message communication (Explicit messaging) Compatible with UCMM and Class 3   |
|  | Number of connections                                      | 64  |
|  | RPI (communication cycle)                                  | 0.5 to 10000 ms (0.5 ms unit)   |
| EtherNet/IP™ specifications            | Tolerable communication bandwidth for cyclic communication | 6000pps   |
| EtherNet/IP™specifications             | Conformance test   | Compatible with Version A7  |
| Power voltage                          |  | 20 to 30 VDC, including ripple (p-p) 10% (This voltage is supplied from the connected sensor amplifier)   |
| Power consumption                      |  | 1500 mW or less (at 30 V 50 mA max)   |
| Environmental resistance               | Pollution degree   | 2   |
|  | 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   |
| Material                               |  | Main unit case: Polycarbonate   |
| Weight                                 |  | Approx. 70 g  |

 $<sup>^{\</sup>star 1}$  For connecting with sensor, please refer to the user's Manual

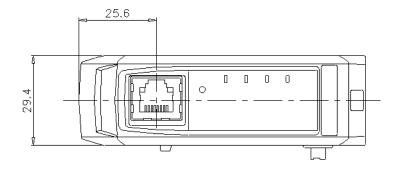
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 $<sup>^{\</sup>star 2}$  "D-bus" is the name of KEYENCE's wiring-saving system for sensor amplifiers.



## **Dimensions**

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



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