

OPEN FIELD NETWORK UNIT

NEW
EtherCAT[®] EtherCAT
DL-EC1A

PROFINET[®]
PROFINET
DL-PN1

PROFIBUS[®]
PROFIBUS DP
DL-PD1

EtherNet/IP[™]
EtherNet/IP[™]
DL-EP1

DeviceNet[™]
DeviceNet[™]
DL-DN1

CC-Link[™]
CC-Link
DL-CL1

NEW
TCP/IP
DL-EN1

RS-232C
DL-RS1A

BCD
DL-RB1A



OPEN FIELD NETWORK UNIT

CHANGING THE FACE OF FACTORY AUTOMATION

The DL Series supports communication with open field networks.

IG Series

Multi-Purpose CCD Laser Micrometer

IB Series

Thru-beam Type
Laser Detection
Sensor

GT2/GT Series

Contact Sensor

IL Series

CMOS Multi-function
Analog Laser Sensor



EtherCAT **NEW**

DL-EC1A



EtherCAT

PROFINET

DL-PN1



PROFIBUS DP

DL-PD1



EtherNet/IP™

DL-EP1



EtherNet/IP

MERIT 1 SAVE WIRING TIME WITH OPEN FIELD NETWORKS

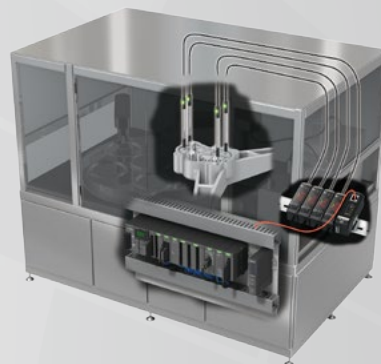
When multiple units are used in combination with each other, more wiring is required.
When communicating with the DL Series, only two wires are required to supply power to all connected sensors.

CONVENTIONAL



Multiple preparation and wiring steps increase installation time.

WITH THE DL SERIES



No need to trim cables or use terminal blocks
No additional wiring is required when replacing/adding sensors
Only a single communication cable is required between the PC/PLC and the DL Series for wiring.

MERIT 2 IMPROVING FUNCTIONALITY THROUGH REMOTE ACCESS WITH FIELD NETWORKS

Judgment result monitoring, measurement value readout, input & output control and setting changes can be performed via HMI, PLC or PC.

CONVENTIONAL

MONITORING

To check the sensor status, the operator must directly check the sensor amplifier.

CHANGING SETTINGS

Settings must be changed on every single sensor amplifier.

WITH THE DL SERIES

MONITORING

The sensor status can be monitored on an HMI, PLC or PC. This makes it easier to detect problems before an error occurs.

CHANGING SETTINGS

Settings can be changed externally from an HMI, PLC or PC; this reduces changeover times.

DeviceNet™

DL-DN1



DeviceNet

CC-Link

DL-CL1



CC-Link V2

TCP/IP **NEW**

DL-EN1



RS-232C

DL-RS1A



BCD

DL-RB1A





SPECIFICATIONS

EtherCAT Network communication unit DL-EC1A NEW

Model		DL-EC1A
EtherCAT Specifications	Compatible functions	Process data object communication (cyclic communication)
		Mailbox communication (message communication) CoE compatible
	Conformance test	Complies with V2.0.42

PROFINET Network communication unit DL-PN1

Model		DL-PN1
PROFINET specifications	Device type	Data I/O Communication Record data Communication
	Number of connections	1
	Update time	2 to 512 ms
	GSDML Version	Ver. 2.3
	Conformance class	Conformance Class A
	Conformance test	V2.2.4
	Compliant protocol	LLDP, DCP

PROFIBUS DP Network communication unit DL-PD1

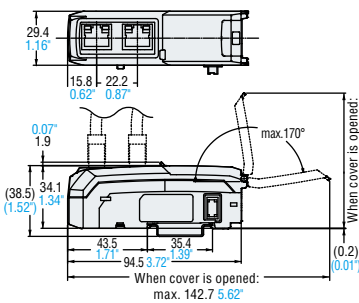
Model		DL-PD1
PROFIBUS DP specifications	Device type	DP-V1 Slave (D-sub 9 pin, Number of the ports: 1)
	Communication speed	9.6 kbps to 12 Mbps
	Cable length	9.6/19.2/45.45/93.75 kbps: 1200 m 3937.0' 187.5 kbps: 1000 m 3280.8', 500 kbps: 400 m 1312.3' 1.5 Mbps: 200 m 656.2', 3/6/12 Mbps: 100 m 328.1'

EtherNet/IP™ Network communication unit DL-EP1

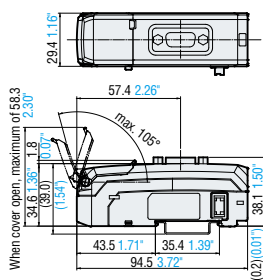
Model		DL-EP1
EtherNet/IP™ Specifications	Compatible Functions	Cyclic Communication
		Message communication (Explicit messaging) Compatible with UCMM and Class 3
	Number of connections	64
	RPI (Transmission cycle)	0.5 to 10000 ms (0.5 ms unit)
	Tolerable communication bandwidth for cyclic communication	6000 pps
	Conformance Test	Compatible with Version A7

DIMENSIONS

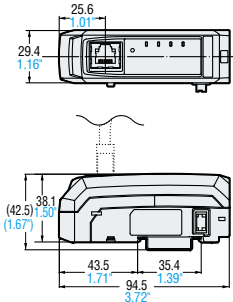
DL-EC1A



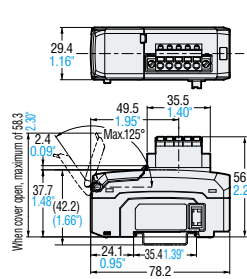
DL-PD1



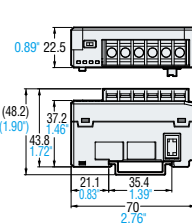
DL-PN1/EP1/EN1



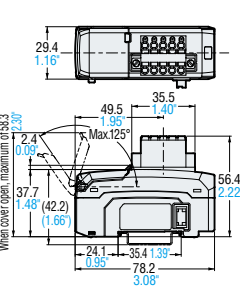
DL-DN1



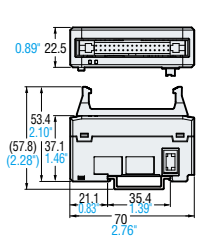
DL-RS1A



DL-CL1



DL-RB1A



Unit: mm inch



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www.keyence.com

SAFETY INFORMATION
 Please read the instruction manual carefully in order to safely operate any KEYENCE product.

CONTACT YOUR NEAREST OFFICE FOR RELEASE STATUS

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