

Functions

O Auto communication speed recognition: The unit enables to recognize communication speed automatically when connecting with master unit. • Network power voltage monitoring: If PV is lower than setting value, the unit enables to receive

abnormal flag for network power voltage monitoring as Explicit message Single byte I/O : Reads / Writes on single byte

Multi-byte I/O : Reads / Writes on several bytes

Additional expansion units: Available to connect expansion units up to 7. I/O points can be

expanded up to max. 64. Reading the number of expansion units. Reads the number of connected expansion units Reading the unit model name: Reads the model name of connected units

Reading unit specification: Read the specification of connected units

The above specifications are subject to change and some models may be discontinued

without notice Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

Model	Basic unit	ARD-DI08N-4S	ARD-DI08P-4S	ARD-DO08N-4S	ARD-DO08P-4S	
wodei	Expansion unit	ARX-DI08N-4S	ARX-DI08P-4S	ARX-DO08N-4S	ARX-DO08P-4S	
Power s	supply	Rated voltage: 24V	DC=, Voltage rang	e: 12-28VDC=		
Power consupmtion		Max. 3W				
Isolation type		Photocoupler isolated				
/O points		NPN input 8-point	PNP input 8-point	NPN output 8-point	PNP output 8-poin	
Control /O	Voltage	10-28VDC== input		10-28VDC== output (voltage drop: max. 0.5VDC==)		
	Current	10mA/point (sensor current: 150mA/points)		0.3A/point (leakage current: max. 0 5mA)		
	Common	8-point, common				
Insulation resistance		Over 200MΩ (at 500VDC megger)				
Noise immunity		±240V the square wave noise (pulse width: 1µs) by the noise simulator				
Dielectr	ric strength	1,000VAC 50/60Hz for 1 minute				
Vibration		1 5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours				
Shock		500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times				
Enviro- ment	Ambient temperature	-10 to 50°C, Storage: -25 to 75°C				
	Ambient humidity	35 to 85%RH, Storage: 35 to 85%RH				
Protection		IP20 (IEC standard)				
Protection circuit		Surge, short-circuit, overheat and ESD protection, reverse polarity protection circu				
		Overcurrent protection circuit (operated at min. 0.17A)		Overcurrent protection circuit (operated at min. 0.7A)		
Indicator		Network status (NS) LED (green, red), unit status (MS) LED (green, red) I/O status LED (input: green, output: red)				
Material		Front case, body case: Polycarbonate				
Mounting		D N rail or bolt mounting type				
Approval		(E DesticeNet				
Unit weight	Basic unit	Approx. 64g	Approx. 64g	Approx. 65g	Approx. 67g	
	Expansion	Approx. 56g	Approx. 57g	Approx. 58g	Approx. 59g	

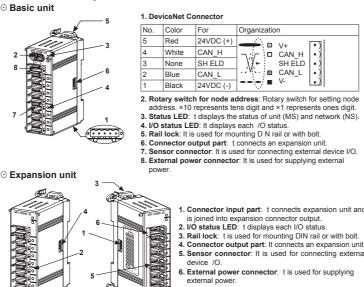
DeviceNet Communication

	Item	Specification		
	Communication	/O Slave messaging (Group 2 Only slave) Poll command: Yes Bit_strobe command: Yes Cyclic command: Yes COS command: Yes		
	Communication distance	Max. 500m (125kbps), Max. 250m (250kbps), Max.100m (500kbps)		
	NODE ADDRESS setting	Max. 64 node (set by front rotary switch)		
	Communication speed ^{*1}	125, 250, 500kbps (automatic setting when connecting with Master)		
	Insulation	/O and inner circuit: Photocoupler insulation, DeviceNet and inner circuit: Non-insulated, power of DeviceNet: Non-insulated		
_	Power supply	Rated voltage: 24VDC Voltage range: 12-28VDC Power consumption: Max. 3W		
	Approval	ODVA Conformance tested		
	*1. The communication speed is automatically set to the communication speed of the Master (PC, PLC, etc.) When changing the communication speed during operation, the network status (NS) LED flashes in red and communication is not possible.			

Communication Distance

Baud rate	Max. network length	Max. branch line length	Max. extended branch line length
125kbps	500m	6m	156m
250kbps	250m	6m	78m
500kbps	100m	6m	39m

Unit Description

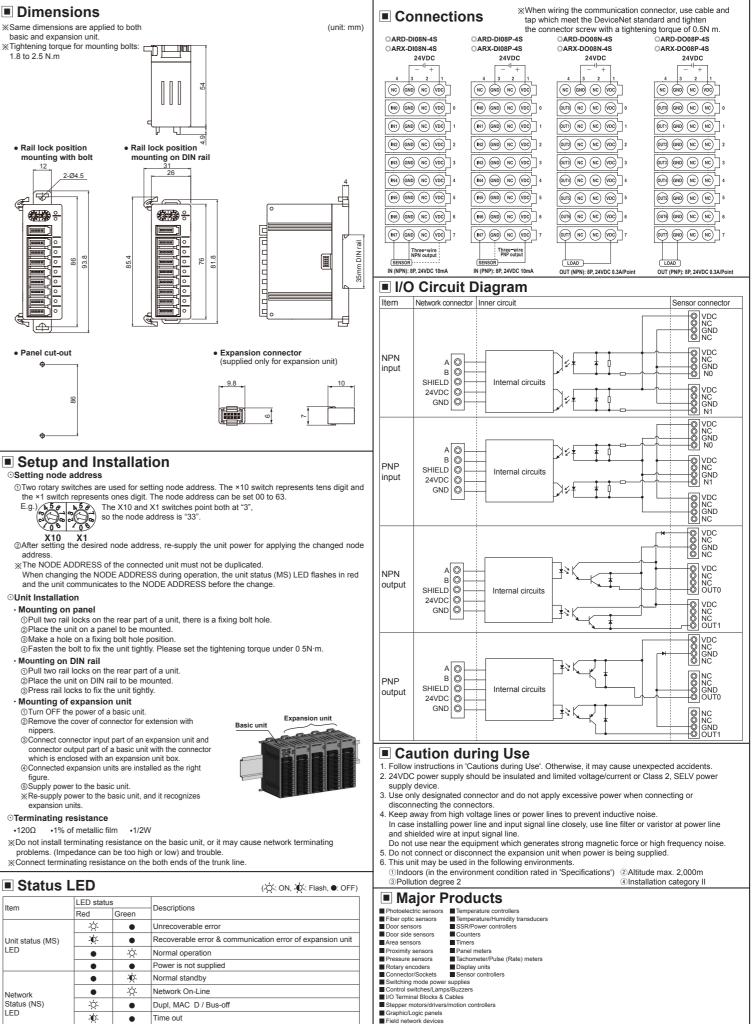


Item

LED

Network

Network Off-Line



- Field network devices
- Laser marking system (Fiber, CO₂, Nd:YAG) Laser welding/soldering system

DRW171438AC