	Speci
Autonics	Туре
Slim Remote I/O [Digital I/O Module]	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ARIO-S-DI/DO SERIES	Model
INSTRUCTION MANUAL	I/O commo
Thank you very much for selecting Autonics products.	Input voltag
For your safety, please read the following before using.	Output leaka
Safety Considerations	I/O signal le
*Please observe all safety considerations for safe and proper product	consumption
operation to avoid hazards. $\times \Lambda$ symbol represents caution due to special circumstances in which	Rated outp current
hazards may occur.	On delay tir
Warning Failure to follow these instructions may result in serious injury or death.	Off delay tir
Caution Failure to follow these instructions may result in personal injury or product damage.	Power consu Installation
 Marning	Insulation r
1. Fail-safe device must be installed when using the unit with machinery	Environ- Aml
that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways,	ment Am
aircraft, combustion apparatus, safety equipment, crime/disaster	Protection
prevention devices, etc.) Failure to follow this instruction may result in personal injury, fire or economic	Material
loss.	Approval
2. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or	Weight ^{**3}
salinity may be present.	×1. Power
Failure to follow this instruction may result in explosion or fire. 3. Do not disassemble or modify the unit.	power vo
Failure to follow this instruction may result in fire.	%2. Autonic %3.The we
4. Do not connect, repair, or inspect the unit while connected to a power	%Environm
source. Failure to follow this instruction may result in fire.	%In case of to connect
5. Check 'Connections' before wiring.	consump
Failure to follow this instruction may result in fire.	Conn
. Use the unit within the rated specifications.	Connecting
Failure to follow this instruction may result in fire or shortening the life cycle	Push the towards of
of the product. 2. Use dry cloth to clean the unit, and do not use water or organic	 Removing
Use dry cloth to clean the unit, and do not use water or organic solvent.	1) Press an
Failure to follow this instruction may result in fire or electric shock.	in direction screwdriv
3. When connecting the power input and output, use AWG 22-16 cable and check the connecting method of crimp terminal.	2) Pull and
Failure to follow this instruction may result in fire or malfunction due to	
contact failure. 4. Keep metal chip, dust, and wire residue from flowing into the unit.	Use the c
Failure to follow this instruction may result in fire or product damage.	
Do not connect or disconnect connector (terminal) wire or power, when the product is operating.	
Failure to follow this instruction may result in fire or malfunction of the	
product.	
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, user	Range Recommen
manual and the technical descriptions (catalog, website).	recommen

Туре		Digital input module		Digital output module		
		4CH	ARIO-S- DI04N	ARIO-S- DI04P	ARIO-S- DO04N	ARIO-S- DO04P
Model		8CH	ARIO-S- DI08N	ARIO-S- DI08P	ARIO-S- DO08N	ARIO-S- DO08P
I/O con	nmon		NPN	PNP	NPN	PNP
Input voltage		Turn ON: min. 7VDC Turn OFF: max. 0.4VDC		-		
Output	leakage	e voltage	-	Max. 1.2VDC)C==
I/O sigr	nal lev	el ^{×1}	24VDC==±10%			
I/O curr		4CH	Max. 6mA/C	H, 4CH/COM		
consum	ption	8CH	Max. 6mA/C	H, 8CH/COM		
Rated output 4CH current 8CH		Max. 500mA/CH,		A/CH, 4CH/CON		
		8CH			Max. 500m	A/CH, 8CH/CON
On delay time		Max. 0.5ms				
Off delay time		Max. 1.5ms				
Power consump. (ABUS)		5VDC, max. 100mA (max. 0.5W)				
Installation method		DIN rail mounting				
Insulation resistance		100MΩ (at 500VDC megger) I/O to inner circuit: photocoupler insulated, between CHs: non-insulated				
Environ- Ambient temp.		10 to 55°C, storage: -25 to 70°C				
ment	Ambie	nt humi.	35 to 85%RH, storage: 35 to 85%RH			
Protection structure*2						
Material		Terminal: polyamide6, Body: modified polyphenylene oxide, Base: polyamide6, poly oxy methylene				
Approval		C € ¢∰us Listed []				
Weight ^{**3}		Approx. 108g (approx. 75g)				

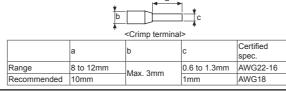
- oltage is supplied.
- ics test standard
- eight includes packaging. The weight in parenthesis is for unit only. nent resistance is rated at no freezing or condensation.
- of one coupler module connecting, the ARIO digital module is available ect up to 8 units. For connecting the modules, consider power ption of the sensors and drivers connected the ARIO coupler.

necting & Removing Wires

۱g

- wire connected with the crimp terminal direction ① to complete the connection.
- nd hold the catch above the terminal on ② with a non-conductive flat head ver (width max. 3mm).
- remove the wire towards direction 3.

UL certified End Sleeve (Ferrule Terminal) crimp terminals and wire. copper-conductor wire with the temperature class 60°C.





14 4 12 70 0°0000 Status indicator Terminal Body Base

(unit: mm)

Manuals

For the detail information and instructions, you must refer to the each manual, and be sure to follow cautions written in the technical descriptions (catalog, website).

Visit our website (www.autonics.com) to download manuals.

Comprehensive Device Management program [DAQMaster]

DAQMaster is a comprehensive device management software for setting parameters and monitoring processes. DAQMaster can be downloaded from our website at www.autonics.com.

Caution during Use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
- 2. ABUS power and I/O power should be insulated by the individually insulated power device.
- 3. Power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- 4. Use the rated standard cables and connectors. Do not apply excessive power when connecting or disconnecting the connectors of the product.
- 5. Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line. For stable operation, use shield wire and ferrite core, when wiring communication wire, power wire, or signal wire. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- 6. Do not touch the module communication connector part of the base.
- 7. Do not connect, or remove the base while connected to a power source. For removing the terminal, body or base, do not operate units for a long time without it

8. T	his unit may be used	in the following	environments.	
(1	Indoors	-	②Altitude max. 2,000m	
3	Pollution degree 2		④Installation category II)	

Major Products

 Fiber Optic Sensors Door Sensors Door Side Sensors Area Sensors Proximity Sensors 	Temperature Controllers Temperature/Humidity Transducers SSRs/Power Controllers Counters Timers Panel Meters		
Pressure Sensors Rotary Encoders Connector/Sockets Switching Mode Powe Control Switches/Lam		Autonics Corporation	
 I/O Terminal Blocks & Stepper Motors/Driver Graphic/Logic Panels Field Network Devices Laser Marking System 	Cables s/Motion Controllers	 HEADQUARTERS: 18, Bansong-ro 513beon-gil, Haeundae-gu, Busan, South Korea, 48002 TEL: 82-51-519-3232 E-mail: sales@autonics.com 	
Laser Welding/Cutting		DRW180085A0	



