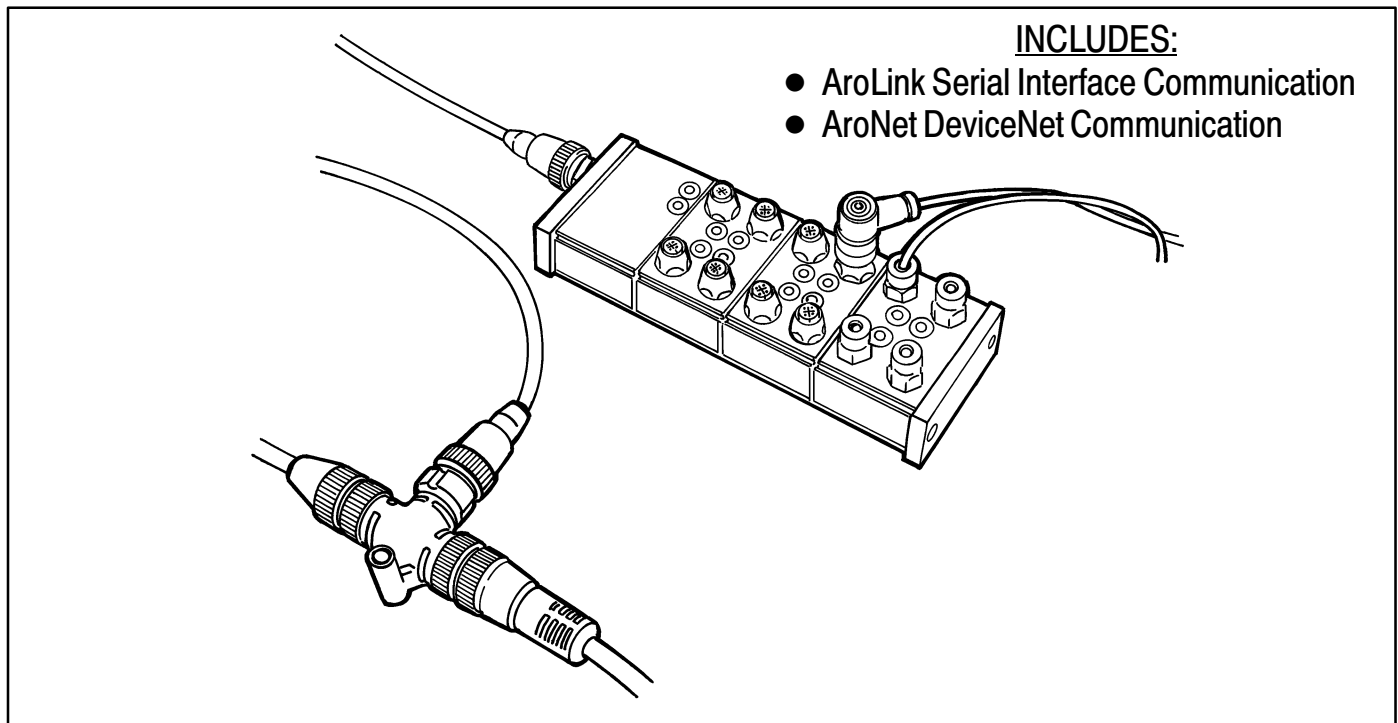


INTERCEPTOR



ARO EasyWire™ System Installation Guide

Flexible Communications for ARO Interceptor Input Block
Using Any Discrete Input PLC.



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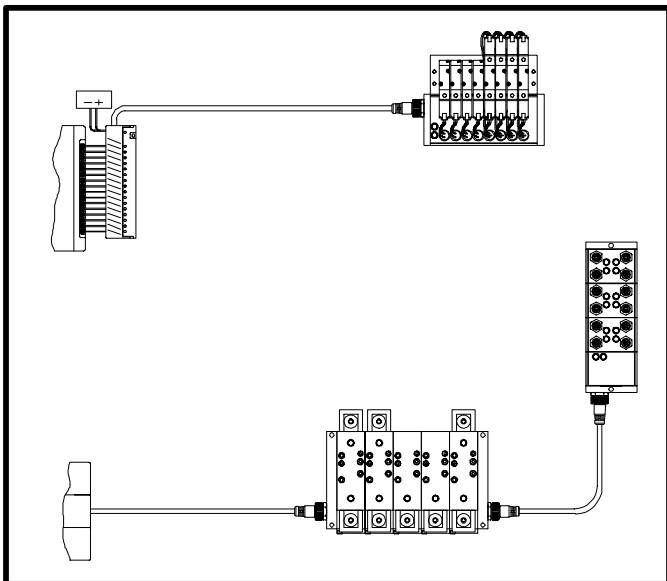


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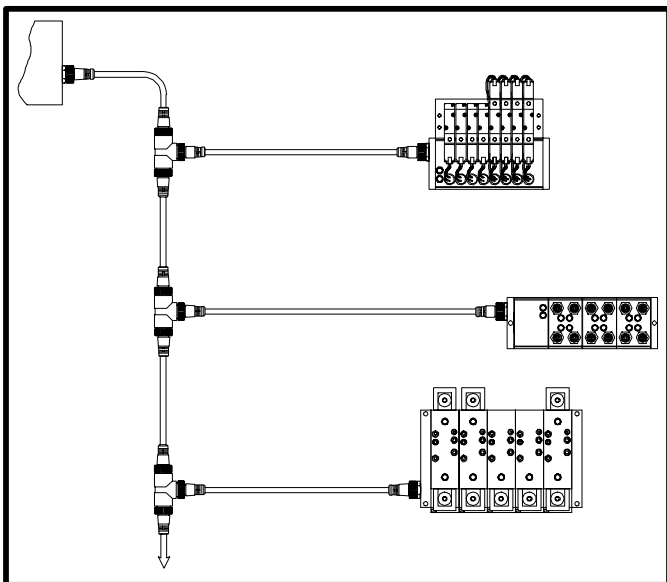
INGERSOLL-RAND
FLUID PRODUCTS



EasyWire AroLink™ Serial Interface

Communication

- Controls up to 32 solenoids / inputs per wire.
- Add / remove valves or input modules in minutes.
- Compatible with Omron® Link Terminals. Works with any make Discrete PLC.
- External power available.
- Directly control 32 I/O per wire from Omron CQM1 PCL.

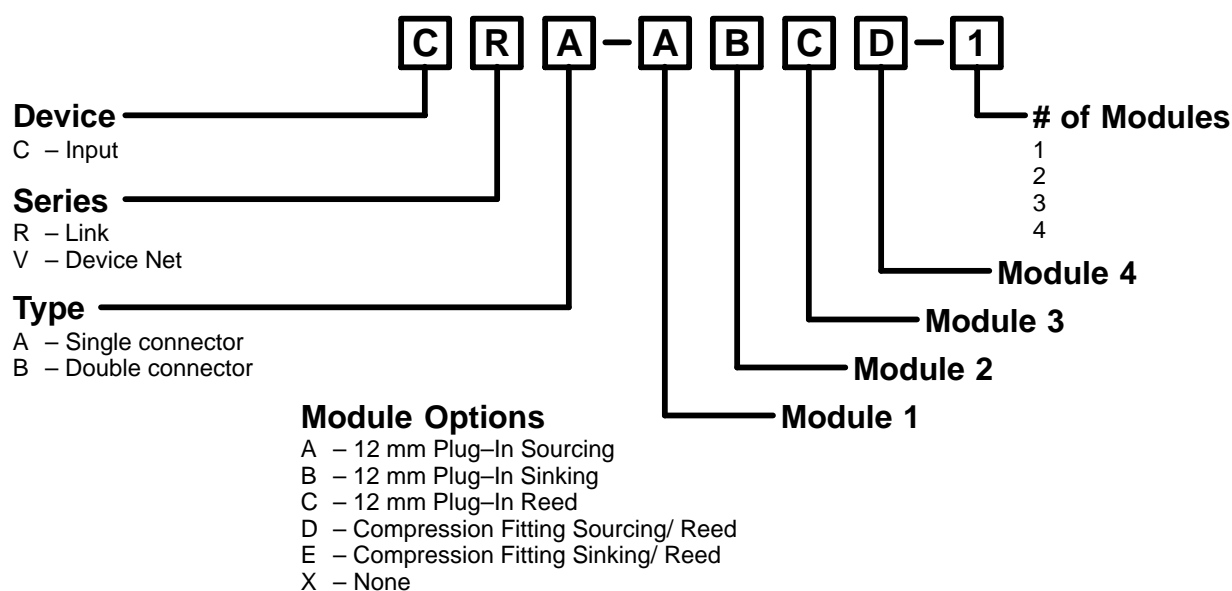


EasyWire AroNet™ Device Net®

Communication

- Fully Device Net compatible.
- Controls up to 16 solenoids / inputs per node (64 nodes per network).
- Add / remove valves or input modules in minutes.
- External power available.

EasyWire Model Description Chart



MODEL DESCRIPTION

Interceptor EasyWire Modules

119818-1	Command Module for AroNet
-2	Command Module for AroLink
119819-1	12 mm Plug-In Module – Sourcing
-2	12 mm Plug-In Module – Sinking
-3	12 mm Plug-In Module – Reed
119820-1	Compression Fitting Module – Sourcing/Reed
-2	Compression Fitting Module – Sinking
119817-1	Endplate Kit for Interceptor
-2	Endplate Kit for Interceptor with Serial Out Connector

Interceptor Receiver (for AroLink System)

119775	Receiver converts signal from Interceptor to 24 V PNP-compatible outputs (16).
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Cylinder Position Switches

119581-3	Reed plug-on magnetic position switch for cylinders.
119582-3	PNP (sourcing) Hall Effect plug-on magnetic position switch for cylinders.
119583-3	NPN (sinking) Hall Effect plug-on magnetic position switch for cylinders.

Switch Cables

119811-1	8 mm connector cable for plug-on switches (bare leads) – 6 ft.
-2	8 mm connector cable for plug-on switches (bare leads) – 12 ft.
119812-1	8 mm connector cable for plug-on switches (12 mm Interceptor connection on opposite end) – 6 ft.
-2	8 mm connector cable for plug-on switches (12 mm Interceptor connection on opposite end) – 12 ft.

Patch Cables

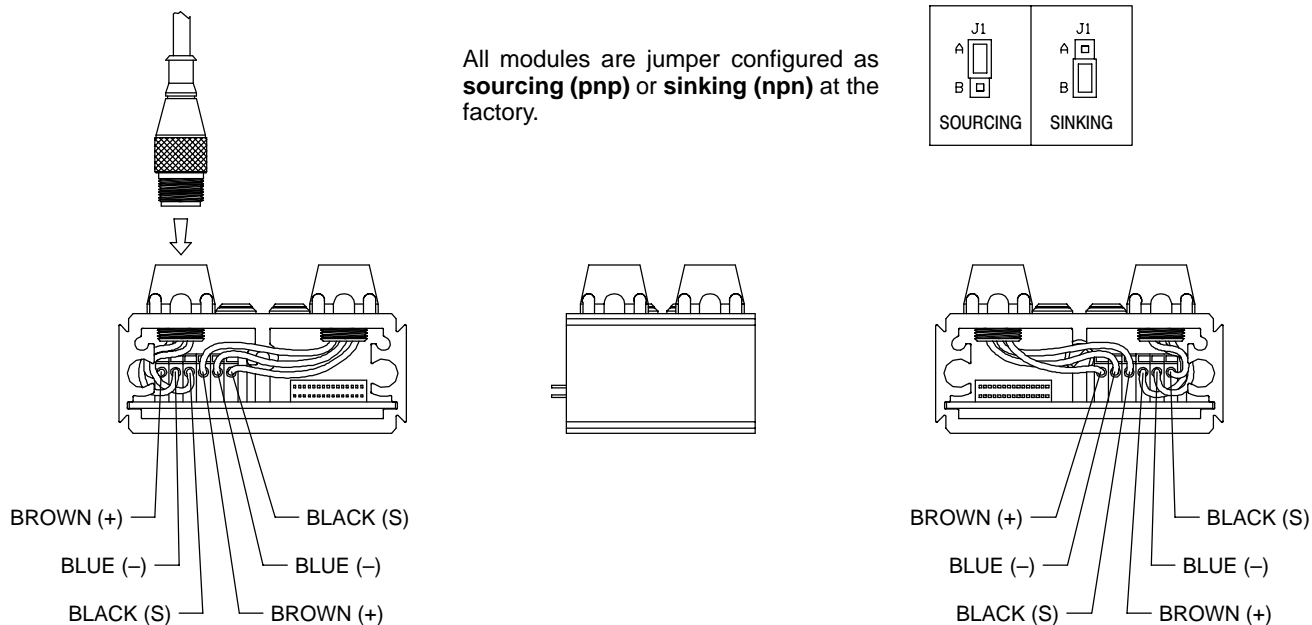
119779-1	Male/ Female 5-pin patch cable for AroLink – 6 ft.
-2	Male/ Female 5-pin patch cable for AroLink – 12 ft.

Cables

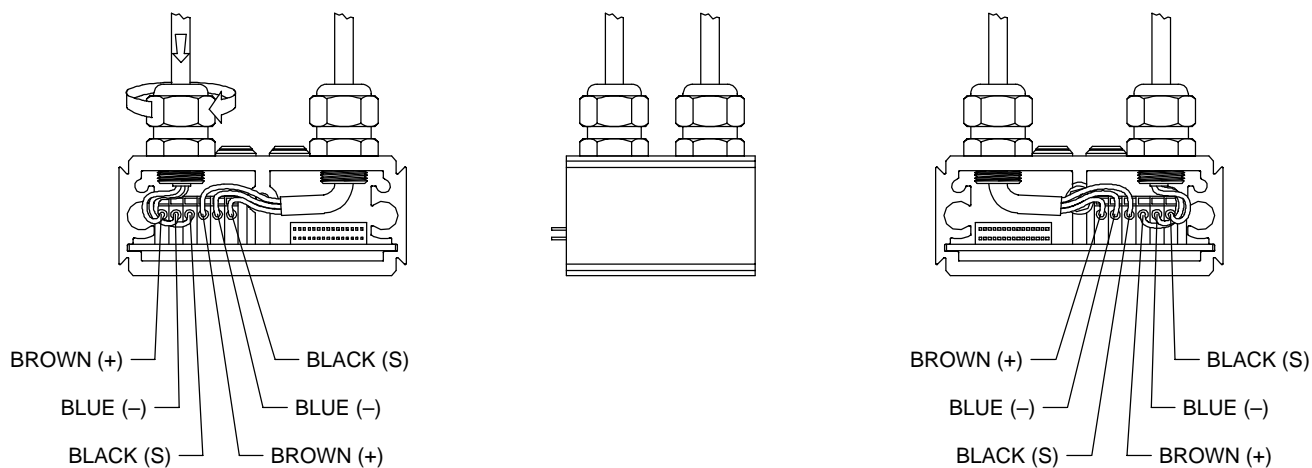
119438-1	5-wire serial communication cable with plug on one end and 5 (each) stripped wires on the other end – 12 ft length.
-2	Same as -1, except 30 ft length.

Interceptor Modules for 3-Wire Switches (Sourcing or Sinking)

An Interceptor Sensor Input Device consists of one module (AroLink, AroNet Device Net, etc.) and as many 4-input modules as are required (up to 16 inputs). The 12 mm connector version of the 4-input module comes pre-wired from the factory and the compression fitting version is wired at installation. If wire colors differ from those shown, consult switch literature.



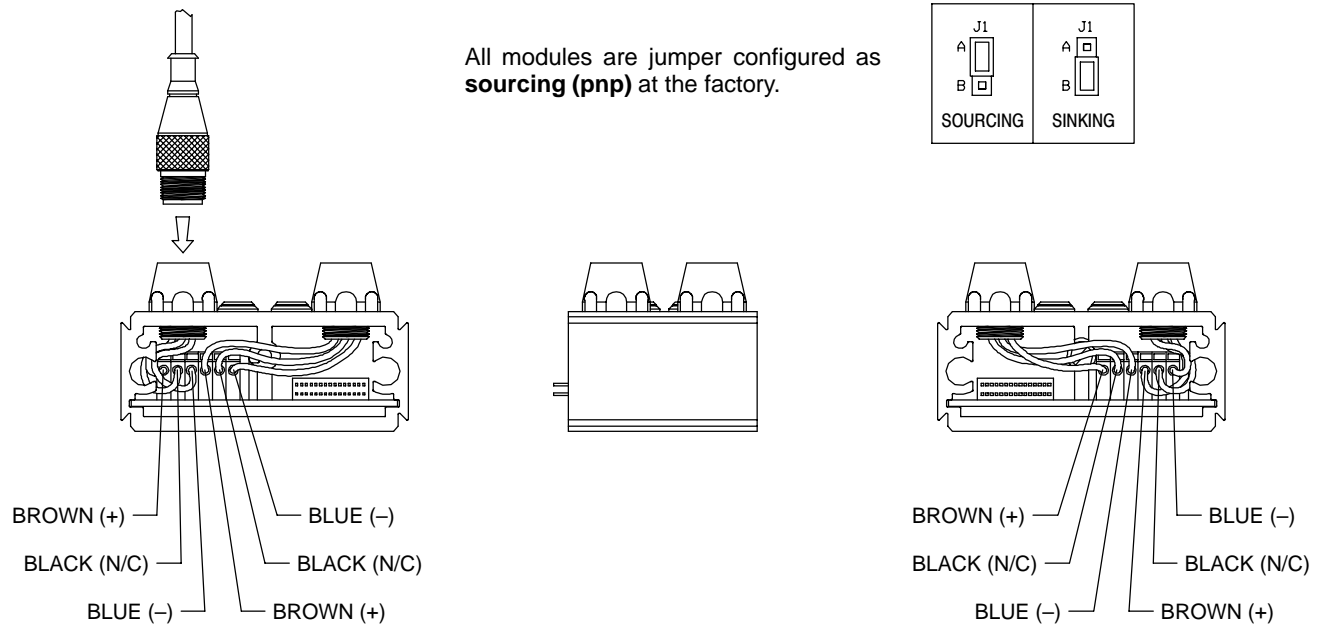
119819-1 and 119819-2 Connector Modules come pre-wired with the above wiring configuration. To install sensors, simply insert switch cable plugs into receptacles on the module.



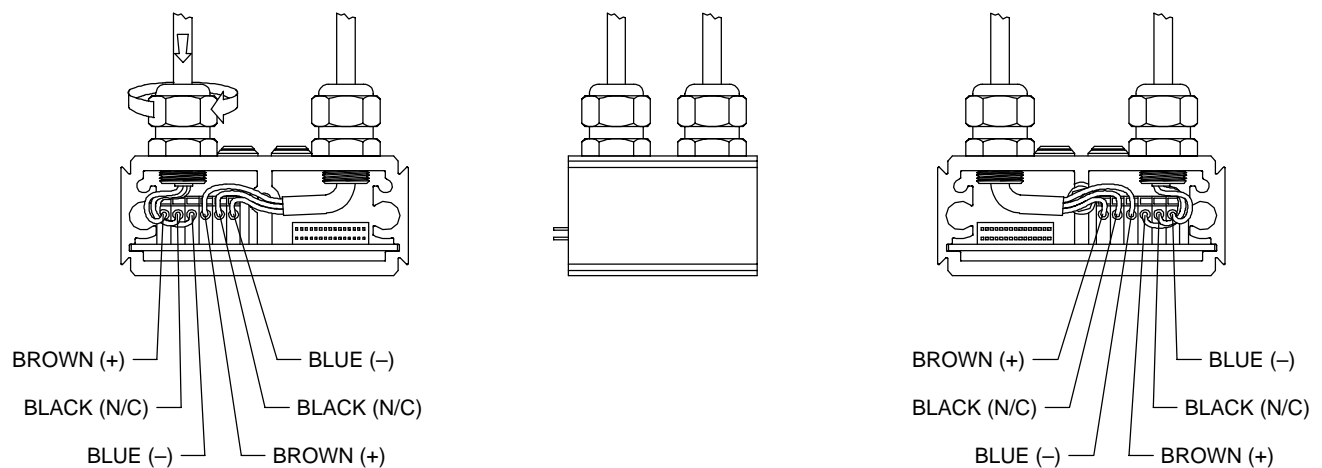
119820 Compression Fitting Module is wired upon installation. To install sensors, simply insert switch cables thru fittings on module. Attach wires to contacts on either end of each module, as shown. Turn the compression fitting collars for strain relief and seal.

Interceptor Modules for 2-Wire (Reed) Switches

An Interceptor Sensor Input Device consists of one control module (AroLink, AroNet Device Net, etc.) and as many 4-input modules as are required (up to 16 inputs). The 12 mm connector version of the 4-input module comes pre-wired from the factory and the compression fitting version is wired at installation. If wire colors differ from those shown, consult switch literature.



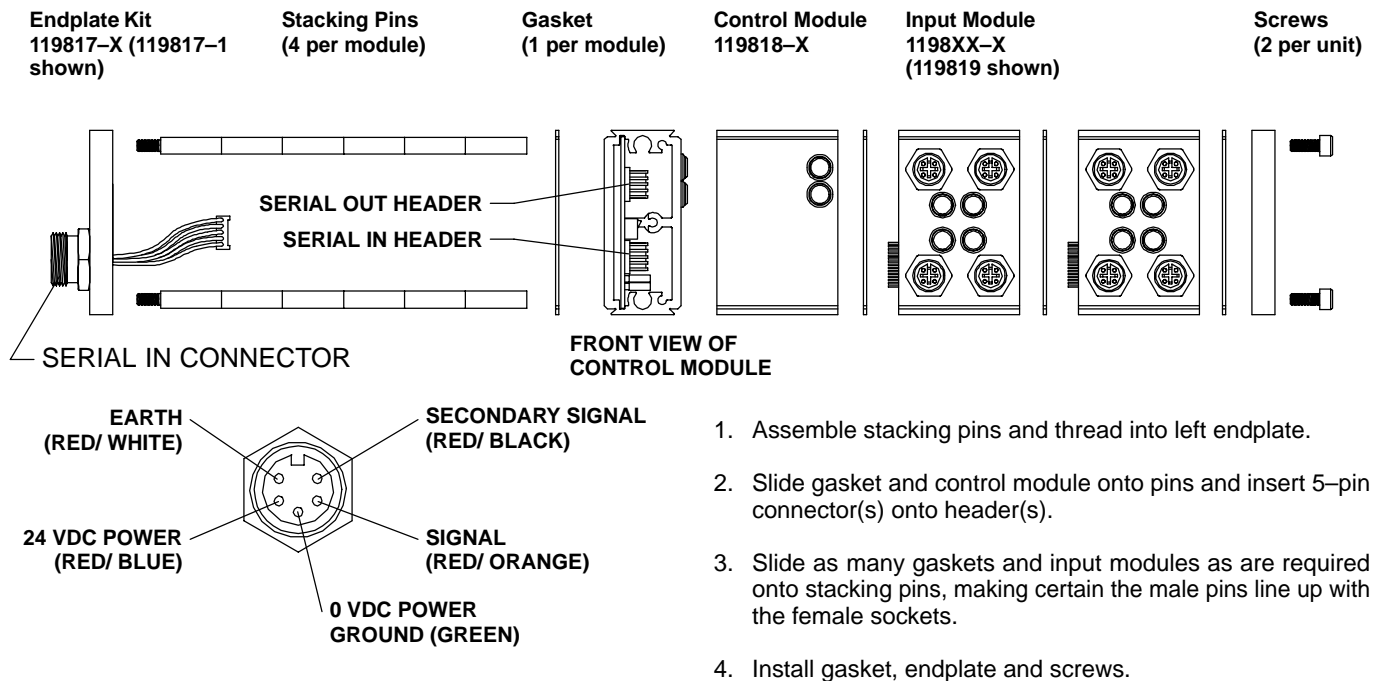
119819-3 Connector Module comes pre-wired with the above wiring configuration. To install sensors, simply insert switch cable plugs into receptacles on the module.



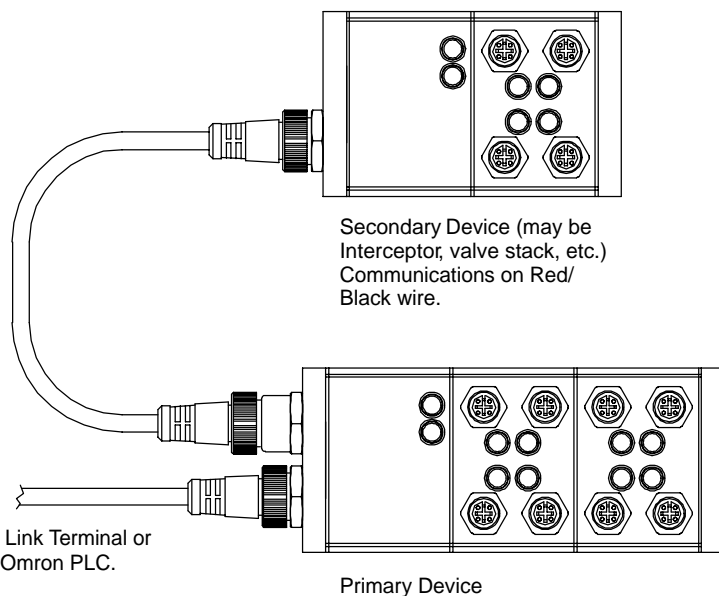
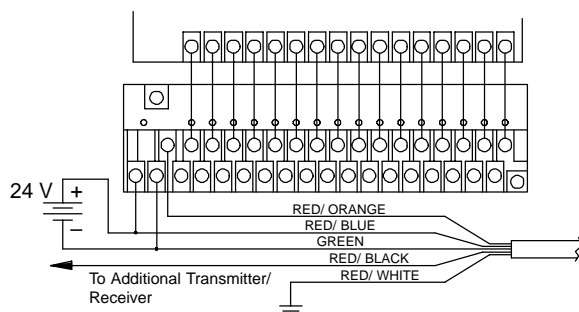
119820 Compression Fitting Module is wired upon installation. To install sensors, simply insert switch cables thru fittings on module. Attach wires to contacts on either end of each module, as shown. Turn the compression fitting collars for strain relief and seal. **The black wire on reed-type switches has no function and may not be present.**

Interceptor Assembly and Wiring

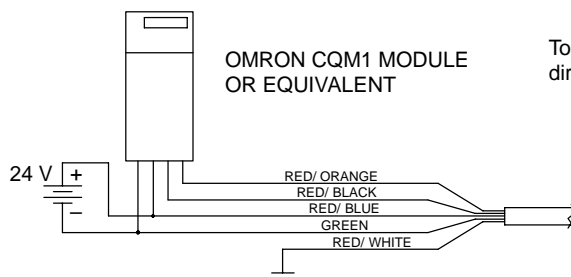
UNIT ASSEMBLY



LINK TERMINAL W/ POWER AT PLC



PLC MODULE W/ POWER AT PLC



ARO EasyWire System Technical Data

EasyWire Systems

	AroLink System	AroNet System
Power (VDC)	24	24
Signal Voltage/Current	24 V @ 18 mA	–
Max. Distance: Power at PLC	50 ft (15 m)	Refer to DeviceNet Specifications
External Power	330 ft (101 m)	
Dual Power	1640 ft (500 m)	
Max. Scan Time (mS)	19 (high speed 3 mS available)	–
PLC to be used	sourcing (pnp) discrete input PLC (24 V)	–

AroNet Configuration

DIP Switch Configurations:	SW1	SW2	Baud Rate
	OPEN	OPEN	125k
	CLOSED	OPEN	250k
	OPEN	CLOSED	500k
Reset MAC ID to 63 @ Power On	CLOSED	CLOSED	Default Setting

LED Designations	LED 1 (Module Status)	LED 2 (Network Status)
Solid Green	AroNet Receiving Power	AroNet Properly Allocated
Flashing Green	AroNet Running thru startup procedures	AroNet senses network, but is unable to communicate. Possible Node Allocation Collision.
Red (any form)	Not Applicable	Fault Mode. AroNet is unable to sense network. Possible failure to allocate a node on network.

Communication Type:	Polled Device (Group 2 only slave)
Bit Mapping Reservations:	16 Bit input word, additional enable bit dependent upon DeviceNet scanner/PLC interfacing.

Interceptor Input Numbering

