

On Machine Components



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Product Description

At the edge of the control cabinet, the SmartWire-DT system transitions from the 8-conductor flat cable to a 5-conductor round cable with standard DC M12 barrel connectors, using simple transition adapters that mount through the panel wall.

This round cable has five conductors, uses standard DC M12 barrel connectors, and is 300 V rated. It is used outside the control panel to connect machine mount (IP69K washdown-rated) I/O modules to the SmartWire-DT system for use with peripherals such as sensors, enclosed pushbuttons, remote enclosed contactors, pneumatic and hydraulic valves, stacklights and other remote devices. This single cable is used both to provide power to connected devices and to carry I/O signals.

Machine mountable I/O modules are connected as nodes on the SmartWire-DT network and allow standard or generic devices to be connected to the SmartWire-DT system. They can be connected anywhere around the machine with up to 2000 ft and 99 machine mount I/O modules possible with a single cable connection.

Features

- Modules with digital and analog channels to accommodate a wide variety of input and output devices
- Modules available in, single connector (1–2 I/O channel), dual connector (2–4 I/O channel), quad connector (4–8 I/O channel), and octal connector (8–16 I/O channel) versions to size exactly to your machine I/O needs at a particular device mounting location (quad and octal versions available in Q4 2016)
- Quad and octal block versions with separate power connection for discrete control of dedicated output channels
- Compatible with a wide range of sensors and actuators for easy integration into any machine design
- Most models offer 2 I/O channels per connection point when used with accessory splitters
- Special version available with 3 I/O channels on a single connection point to be compatible with 3-element stacklights and 3-element pushbutton stations using a single I/O cable
- Most versions provide configurable I/O channels to allow for selection as input or output in any combination
- Integrated 24 Vdc power and communications with single 5-conductor cable using standard DC M12 connectors
- Complete Plug & Play solution, integrated with In Panel SmartWire-DT wiring components including auto-addressing feature
- Connection of up to 99 modules and up to 2000 feet of cable on a single branch of the wiring system
- Built-in diagnostic bi-color LEDs on each module
- IP69K enclosure ratings for use in harsh washdown applications
- Tool-free mounting options
- Vertical and flat mounting possible

Contents

Description

Page

On Machine Components	
Machine Mount I/O Modules—Digital	V7-T9-43
Machine Mount I/O Modules—Analog	V7-T9-45
I/O Splitters	V7-T9-46
Other I/O Connections	V7-T9-46
Valve Connectors	V7-T9-47
Machine Mount Powerfeed Modules	V7-T9-47
Panel Transition Components	V7-T9-48
SmartWire-DT Round Bus Cables	V7-T9-49
Power Cables—Externally Powered	
I/O Models	V7-T9-50
Other System Components	V7-T9-52

Product Selection

Machine Mount I/O Modules—Digital

SmartWire-DT I/O modules for connection to most digital input and output devices. All EU1E and EU2E models receive power and I/O communications signals on the SmartWire-DT round bus cable shown on **Page V7-T9-49**. EU6E and EU8E models are offered in two versions—the first version is similar to the EU1E/EU2E models and receives power and I/O communications signals on the SmartWire-DT round bus cable. The second version offers an external power connection that gives the user discrete control of machine actuation outputs. This can be useful in a variety of different machine control situations including machine safety applications.

EU1E Models



EU2E Models



**EU6E Models
No external power**



**EU8E Models
No external power**





**EU6E Models
External power**



**EU8E Models
External power**



	Description	Number of Dedicated Inputs	Number of Dedicated Outputs	Number of Configurable Input/Output Channels	Catalog Number
EU1E-SWD_ 	One digital input channel Messages: Status of the digital input 1 Commands: None	1	0	0	EU1E-SWD-1DX
	Two digital input channels Messages: Status of the digital inputs 1 and 2 Commands: None	2	0	0	EU1E-SWD-2DX
	Two configurable digital input/output channels Messages: Status of the digital inputs 1 and/or 2 (if configured as inputs) Commands: Actuation of outputs 1 and/or 2 (if configured as outputs)	0	0	2	EU1E-SWD-2DD
EU2E-SWD_ 	Two digital input channels Messages: Status of the digital inputs 1 and 2 Commands: None	2	0	0	EU2E-SWD-2DX
	Four digital input channels Messages: Status of the digital inputs 1, 2, 3 and 4 Commands: None	4	0	0	EU2E-SWD-4DX
	Four configurable digital input/output channels Messages: Status of the digital inputs 1 and/or 2 and/or 3 and/or 4 (if configured as inputs) Commands: Actuation of outputs 1 and/or 2 and/or 3 and/or 4 (if configured as outputs) Note: I/O channels are arranged with channels 1 and 2 wired to I/O connector X1 and channels 3 and 4 wired to I/O connector X2	0	0	4	EU2E-SWD-4DD
	Four configurable digital input/output channels Messages: Status of the digital inputs 1 and/or 2 and/or 3 and/or 4 (if configured as inputs) Commands: Actuation of outputs 1 and/or 2 and/or 3 and/or 4 (if configured as outputs) Note: I/O channels are arranged with channel 1 wired to I/O connector X1 and channels 2, 3 and 4 wired to I/O connector X2	0	0	4	EU2E-SWD-4DD-1