

M-series Intrinsically Safe I/O

July 2023

External Connectors	
Primary Power	DC Input, 3-wire

LocalBus Isolator

The DeltaV LocalBus Isolator protects the I.S. I/O from fault voltages from AC main power supplies. The LocalBus Isolator also links intrinsically safe I/O with non-intrinsically-safe I/O. The following table gives the specifications for the DeltaV LocalBus Isolator.

LocalBus Isolator Specifications		
Dimensions	Centimeters	Inches
Height	11.0	4.3
Width	4.2	1.7
Depth	16.0	6.2
Weight	250 grams	8.7 oz

Carriers

All DeltaV I.S. I/O cards are contained in modular 8-wide carriers. Connect the carriers in the most efficient configuration for your plant. The carriers have multi-pin connectors to ensure that I.S. I/O is never connected to non-I.S. I/O.

Power supplies for I.S. I/O modules using field wiring have their own modular carriers. These carriers connect between the I/O carriers.

Use a LocalBus isolator to connect I.S. I/O with non-I.S. field wiring. The LocalBus isolator resides on its own carrier.

Carrier Specifications

Common Environmental Specifications for all Carriers	
Category	Specifications
Relative Humidity	5 to 95%, Non-condensing
Airborne Contaminants	ISA-S71.04-1985 Airborne Contaminants Class G3
Protection Rating	IP 20
Shock	10 g ½-sine Wave for 11 ms

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Vibration	1 mm peak-to-peak from 5 to 16 Hz; 0.5 g from 16 to 150 Hz
Hazardous Area/Location*	Zone 2 IIC T4 hazardous areas Class I, Div 2, Groups A, B, C, D T4 hazardous locations.

*Refer to Zone 0 installation instructions (12P1990) for information on installing in hazardous areas.

8-Wide I.S. I/O Carrier Specifications		
Capacity	Eight I/O Cards and Eight Terminal Blocks	
Dimensions	Centimeters	Inches
Height	16.5	6.5
Width	33.6	13.2
Depth	3.1	1.2

I.S. I/O Power Supply Carrier Specifications		
Capacity	One I.S. Power Supply	
Dimensions	Centimeters	Inches
Height	16.5	6.5
Width	8.4	3.3
Depth	3.1	1.2

LocalBus Isolator Carrier Specifications		
Capacity	One LocalBus Isolator	
Dimensions	Centimeters	Inches
Height	16.5	6.5
Width	8.4	3.3
Depth	3.1	1.2

I.S. 1-wide Carrier Extender (Left and Right) Specifications		
Capacity	Single Cable	
Dimensions	Centimeters	Inches
Height	16.5	6.5
Width	4.2	1.7
Depth	3.1	1.2

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System Compatibility

M-series I/O cards are not compatible with S-series Controllers and Carriers.

Ordering Information

Description	Model Number
8-channel AI, 4-20 mA with HART with I/O Term Block with Loop Disconnect Term Block	VE4012S2B1 VE4012S2B2
8-channel AO, 4-20 mA with HART with I/O Term Block with Loop Disconnect Term Block	VE4013S2B1 VE4013S2B2
16-channel DI, Switch/Proximity Detector	VE4010B1
4-channel, DO, Solenoid Driver, IIC Gas Groups with I/O Term Block with Loop Disconnect Term Block	VE4011B1 VE4011B2
8-wide Carrier without Carrier Extension Cable with Carrier Extension Cable	VE4060C0 VE4060C1
24 VDC Input I/O Module Supply and Carrier	VE5010
LocalBus Isolator and Carrier	VE4070

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PRODUCT: VE4070 / DeltaV M-series Intrinsically Safe I/O LocalBus Isolator and Carrier

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