

1738 ArmorPoint I/O

Digital DC I/O Modules

The 1738 digital I/O modules support:

- A wide variety of voltage interface capabilities.
- Isolated and non-isolated module types.
- Point-level output fault states for short-circuit and wire-off diagnostics.
- Choice of direct-connect or rack-optimized communications.
- Field-side diagnostics on select modules.

ArmorPoint Digital DC Input Modules

General-purpose 24V DC inputs including 2- and 3-wire proximity sensors.

Cat. No.	Inputs	On-State Voltage, Nom.	Voltage Range	Input Delay Time, On to Off	Current, On-State Input, Min.	Current, On-State Input, Max.	Current, Off-State Input, Max.	PointBus Current (mA)	Power Dissipation, Max.	Termination Type
1738-IB2M12	2 current sinking	24V DC	10V DC... 28.8V DC	0.5 ms hardware + (0...65 ms selectable)	2 mA	5 mA	1.5 mA	75 mA	0.7 W at 28.8V DC	DC micro (M12)
1738-IB4M12	4 current sinking									
1738-IB4DM12	4 current sinking, Diagnostic		11V DC... 28.8V DC	0...65535 μ s selectable in 1 μ s intervals (rounded to nearest 333 μ s) Default is 1000 μ s	15 mA	50 mA	0.6 W max at 28.8V DC	DC micro (M12)		
1738-IB4M8	4 current sinking		10V DC... 28.8V DC	0.5 ms hardware + (0...65 ms selectable)	5 mA	75 mA	1.0 W at 28.8V DC	Pico 3-pin (M8)		
1738-IB8M12	8 current sinking		1.6 W at 28.8V DC	DC micro (M12)†						
1738-IB8M23					1.6 W at 28.8V DC	M23				
1738-IB8M8					1.6 W at 28.8V DC	Pico 3-pin (M8)				
1738-IB16DM12					16 current sinking, Diagnostic	2.7 W at 28.8V DC	DC micro (M12)			
1738-IV8M12	8 current sourcing		1.6 W at 28.8V DC	DC micro (M12)						
1738-IV8M23					1.6 W at 28.8V DC	M23				
1738-IV8M8					1.6 W at 28.8V DC	Pico 3-pin (M8)				
1738-IV4M12	4 current sourcing		1.0 W at 28.8V DC	DC micro (M12)						

† Quantity 4.

ArmorPoint Digital DC Output Modules

24V DC electronically protected output modules. The 1738-OB2EPM12 module has 24V DC electronically protected, fast-switching high-current outputs.

Cat. No.	Outputs	On-State Voltage, Nom.	Voltage Range	Output Current Rating, Max.	PointBus Current (mA)	Power Dissipation, Max.	Termination Type	
1738-OB2EM12	2 current sourcing	24V DC	10V DC...28.8V DC	2.0 A per module, 1.0 A per channel	75 mA	0.8 W at 28.8V DC	DC micro (M12)	
1738-OB2EPM12				4.0 A per module, 2.0 A per channel				
1738-OB4EM12	4 current sourcing			3.0 A per module, 1.0 A per channel				1.2 W at 28.8V DC
1738-OB4EM8				Pico 3-pin (M8)				
1738-OB8EM12	8 current sourcing			2.0 W at 28.8V DC	DC micro (M12)‡			
1738-OB8EM23						M23		
1738-OB8EM8						Pico 3-pin (M8)		
1738-OB16EM12	16 current sourcing			4.0 A per module 0.5 A per channel	150 mA	3.0 W at 28.8V DC	DC micro (M12)	
1738-OB16E25DS		D-shell*						
1738-OB16E19M23		M23						
1738-OV4EM12	4 current sinking		4.0 A per module, 1.0 A per channel	75 mA	2.9 W at 28.8V DC	DC micro (M12)		

‡ Quantity 4.
 * Use the 1738-CBLM25DS 25-pin D-sub connector interface cable to connect the 1738-OB16E25DS module, or another I/O module that has a similar D-sub connector, to a pneumatic valve interface.

ArmorPoint Digital DC Configurable Modules

Modules offer eight configurable 24V DC I/O points, with sealed M8 (pico) or M23 style I/O connectors. A mounting base ships with each module. The 1738-8CFGDLXM8 and 1738-8CFGDLXM23 modules include DeviceLogix functionality.

Cat. No.	Inputs/Outputs	On-State Voltage	On-State Current	PointBus Current (mA)	Power Dissipation, Max.	Termination Type
1738-8CFGM8	8 configurable sinking inputs or sourcing outputs	11V min 30V max	2 mA min 15 mA max	75	1.0 W at 28.8V DC	Pico 3-pin (M8)
1738-8CFGM23						M23
1738-8CFGDLXM8	8 configurable sinking inputs or sourcing outputs, with DeviceLogix					Pico 3-pin (M8)
1738-8CFGDLXM23						M23

ArmorPoint Digital Contact Output Modules

Individually isolated contact output modules.

Cat. No.	Outputs	On-State Voltage, Nom.	Output Delay Time, On to Off, Max.*	Contact Resistance, Initial	Relay Output Current Rating, Max.	Leakage Current, Off-State Output, Max	PointBus Current (mA)	Power Dissipation, Max.	Termination Type
1738-OW4M12	4 Form A (N.O.) relays, isolated	24V DC	26 ms	30 mΩ	—	1.2 mA and bleed resistor thru snubber circuit @ 240V AC	80 mA	0.5 W	DC micro (M12)
1738-OW4M12AC									AC micro 4-pin♣

* Time from valid output off signal to relay deenergization by module.
 ♣ Quantity 2.

Mating Cables

The mating cables listed represent straight PVC models. You can also use our [Product Configuration Assistant](#) for ArmorPoint digital I/O modules to find additional mating cables, network connections, and auxiliary power connections for the I/O module you need.

ArmorPoint Digital DC Input Module Mating Cables

ArmorPoint Cat. No.	End Device per Connector	Recommended Patchcord (Double-ended)	Recommended Male Cordset (Single-ended)	Recommended Field Attachable Connector
1738-IB8M12 1738-IV8M12 1738-IB16DM12	(2) DC Micro	879D-F4ACDM-#	879D-C3ACD4M-‡	871A-VS4-DM
	(2) Pico 3-Pin	879PZ-F3ABDM4-#		
	(2) Pico 4-Pin	879PZ-F4ABDM-#		
	(1) DC Micro	889D-F4ACDM-#	889D-M4AC-‡	871A-TS4-DM
	(1) Pico 3-Pin	889P-F3ABDM4-#		
	(1) Pico 4-Pin	889P-F4ABDM-#		
1738-IB2M12 1738-IB4M12 1738-IB4DM12 1738-IV4M12	(1) DC Micro	889D-F4ACDM-#	889D-M4AC-‡	871A-TS4-DM
	(1) Pico 3-Pin	889P-F3ABDM4-#		
	(1) Pico 4-Pin	889P-F4ABDM-#		
1738-IB4M8 1738-IB8M8 1738-IV8M8 1738-8CFGM8 1738-8CFGDLXM8	(1) DC Micro	889D-F4ABP3M-#	889P-M3AB-‡	871A-TS3-PM
	(1) Pico 3-Pin	889P-F3ABPM-#		
	(1) Pico 4-Pin	889P-F4ABPM3-#		
1738-IB8M23 1738-IV8M23 1738-8CFGM23 1738-8CFGDLXM23	(1) M23 12-Pin	889M-F11RMMU-#	889M-U11RM-‡	889M-M12AH-T

= length in meters (1, 2, 3, 5, and 10 standard).

‡ = length in meters (2, 5, and 10 standard).

ArmorPoint Digital DC Output Module Mating Cables

ArmorPoint Cat. No.	End Device per Connector	Recommended Patchcord (Double-ended)	Recommended Male Cordset (Single-ended)	Recommended Field Attachable Connector
1738-OB8EM12 1738-OB16EM12	(2) DC Micro	879D-F4ACDM-#	879D-C3ACD4M-‡	871A-VS4-DM
	(2) Pico 3-Pin	879PZ-F3ABDM4-#		
	(2) Pico 4-Pin	879PZ-F4ABDM-#		
	(1) DC Micro	889D-F4ACDM-#	889D-M4AC-‡	871A-TS4-DM
	(1) Pico 3-Pin	889P-F3ABDM4-#		
	(1) Pico 4-Pin	889P-F4ABDM-#		
1738-OB2EM12 1738-OB2EP12 1738-OB4EM12 1738-OV4EM12	(1) DC Micro	889D-F4ACDM-#	889D-M4AC-‡	871A-TS4-DM
	(1) Pico 3-Pin	889P-F3ABDM4-#		
	(1) Pico 4-Pin	889P-F4ABDM-#		
1738-OB4EM8 1738-OB8EM8	(1) DC Micro	889D-F4ABP3M-#	889P-M3AB-‡	871A-TS3-PM
	(1) Pico 3-Pin	889P-F3ABPM-#		
	(1) Pico 4-Pin	889P-F4ABPM3-#		
1738-OB8EM23	(1) M23 12-Pin	889M-F11RMMU-#	889M-U11RM-‡	889M-M12AH-T
1738-OB16E19M23	(1) M23 19-Pin	889M-F19RM-#	889M-U19RM-‡	889M-M19AH-T

= length in meters (1, 2, 3, 5, and 10 standard).

‡ = length in meters (2, 5, and 10 standard).

ArmorPoint Digital Contact Output Module Mating Cables

ArmorPoint Cat. No.	End Device per Connector	Recommended Patchcord (Double-ended)	Recommended Male Cordset (Single-ended)	Recommended Field Attachable Connector
1738-OW4M12	(1) DC Micro	889D-F4ACDM-#	889D-M4AC-‡	871A-TS4-DM
1738-OW4M12AC	(1) AC Micro 4-Pin	889R-F4AERM-#	889R-M4AEA-‡	—

= length in meters (1, 2, 3, 5, and 10 standard).

‡ = length in meters (2, 5, and 10 standard).