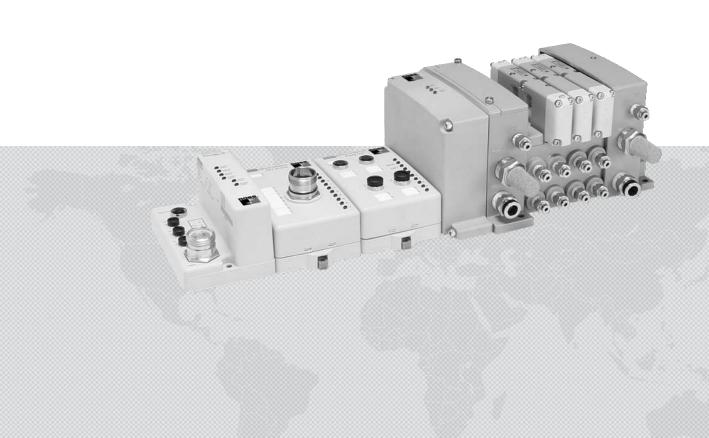


PRODUCT INFORMATION

SERIAL BUS COMMUNICATION

ROSS System



ROSS CONTROLS

ROSS SERIAL BUS COMMUNICATIONS - KEY FEATURES

- A complete Serial Bus communication offering for all ISO valves
- Centralized and decentralized pneumatics and I/O configurations
- Communication module supports up to 63 I/O modules, 264 Inputs, and 264 Outputs
- Input modules accept signals from sensors, photo eyes, limits and other field input devices
- Output modules provide signals to remote solenoid valves and other field output devices
- · UL, C-UL, and CE certified



CONTENT	Page
ROSS Serial Bus Communications	C3.3 - C3.5
Select Communication Module	C3.6
Select Input/Output Module	C3.7 - C3.8
Select Valve Driver Module	C3.8
Select Power Unit	C3.9
Select Cables and Cordsets	C3.10 - C3.11

ROSS Serial Bus Communications

I/O - Centralized Configuration

A complete Serial Bus communication offering for all ISO valves.

UL, C-UL and CE certifications (as marked) Centralized Serial Bus system.

Pneumatics and I/O are in close proximity to one another.

I/O density per module = 8.



I/O - Remote Configuration

A complete Serial Bus communication offering for all ISO valves.

UL, C-UL and CE certifications (as marked) Centralized Serial Bus system.

Pneumatics and I/O are in close proximity to one another. M23, 12-Pin output extension to remote valve island. I/O density per module = 8.

I/O - Compartmentalized Remote Configuration

A complete Serial Bus communication offering for all ISO valves.
UL, C-UL and CE certifications (as marked).



Components Selection Steps

- 1. Select Communication Interface Module
- 2. Select I/O Modules
- 3. Select Valve Driver Module
- 4. Select Terminating Base Module
- 5. Select Optional Power Component
- 6. Select Accessories

Serial Bus Product Compatibility

	DeviceNet™ Adapter RPSSCDM	ControlNet Adapter RPSSCCNA	EtherNet Adapter RPSSCENA	PROFIBUS Adapter RPSSCPBA
PLC-5™ with Network Port	IOD	NS	NS	NA
SLC 500™ with Network Port	IOD	NS	NS	NA
PLC-5 Processor via Network Module	IOD	NS	NS	3
1756 Logix™ Communication Interface	IOD	IOD	IOD	3
PanelView™ Terminal	NA	NA	NA	NA
RSLinx™ Software	NA	NA	NA	NA
1769-L20, -L30 Controller with 1761- NET Interface	NA	NS	NS	NA
1769-L32E, -35E	NA	NA	IOD	NA
1769-L32C, -35CR	NA	IOD	NA	NA
1769 CompactLogix™ Communication Interface	IOD	NA	NA	3*
SoftLogix5800™ Communication Interface	IOD	IOD	IOD	3*
PC with RSLinx Only	NS	NS	NS	NA
FlexLogic™ Communication Interface	IOD	IOD	IOD	3

IOD = I/O Data, NS = Not Supported, NA = Not Applicable

Communication Considerations

Serial Bus features are impacted by your network choice.

Network	Impact
DeviceNet™ RPSSCDM12A and RPSSCDM18PA	The RPSSCDM12A and RPSSCDM18PA provide two means of connecting a node of I/O to DeviceNet™. A total of 63 Serial Bus modules can be assembled on a single DeviceNet™ node. Expansion power supplies may be used to provide additional PointBus backplane current.
ControlNet™ RPSSCCNA	A total of 63 Serial Bus modules can be assembled on a single ControlNet™ node. Expansion power supplies may be used to provide additional PointBus backplane current. Up to 25 direct connections and 5 rack connections are allowed.
EtherNet/IP™ RPSSCENA	A total of 63 Serial Bus modules can be assembled on a single EtherNet / IP node. Expansion power supplies may be used to provide additional PointBus backplane current. Refer to the User Manual, Bulletin 601 (form #A10311) to determine the ratings for direct and rack connections allowed.
PROFIBUS DP™ RPSSCPBA	A total of 63 Serial Bus modules can be assembled on a single PROFIBUS node. Expansion power supplies may be used to provide additional PointBus backplane current.



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^{3 =} Requires third party scanner module

^{*} Hilscher North America

ROSS Serial Bus Communications

Communication Modules*

Network	Model Number	Voltage	
†§ DeviceNet™ (M18 or M12)	RPSSCDM18PA (M18) or RPSSCDM12A (M12)	10 to 28.8 volts DC	
†§ ControlNet™	RPSSCCNA	10 to 28.8 volts DC	
†§ Ethernet I/P™	RPSSCENA	10 to 28.8 volts DC	
†§ Profibus-DP®	RPSSCPBA	10 to 28.8 volts DC	

^{*} IP67 Certified.

EDS and GSD files located at www.rosscontrols.com



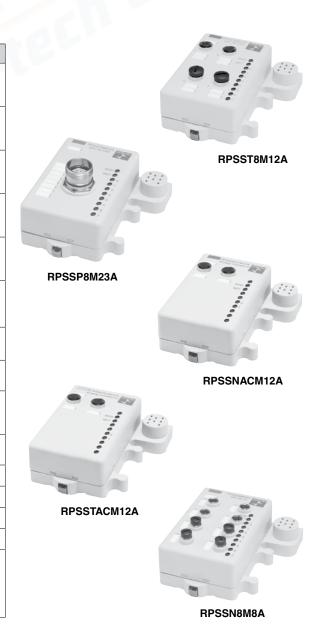
I/O Modules*

Ne	etwork	Model Number	del Number Voltage		
t	8 Digital Inputs M12 (NPN Sinking - Requires PNP Sourcing Input Device)	RPSSN8M12A	10 to 28.8 volts DC		
t	8 Digital Inputs M12 (PNP Sourcing - Requires NPN Sinking Input Device)	RPSSP8M12A	10 to 28.8 volts DC		
+	8 Digital Inputs M8 (NPN Sinking - Requires PNP Sourcing Input Device)	RPSSN8M8A	10 to 28.8 volts DC		
t	8 Digital Inputs M8 (PNP Sourcing - Requires NPN Sinking Input Device)	RPSSP8M8A	10 to 28.8 volts DC		
t	8 Digital Inputs M23 12-Pin (PNP Sourcing - Requires NPN Sinking Input Device)	RPSSP8M23A	10 to 28.8 volts DC		
t	8 Digital Inputs M23 12-Pin (NPN Sinking - Requires PNP Sourcing Input Device)	RPSSN8M23A	10 to 28.8 volts DC		
٠	8 Digital Outputs M12 (PNP Sourcing)	RPSST8M12A	10 to 28.8 volts DC		
٠	8 Digital Outputs M8 (PNP Sourcing)	RPSST8M8A	10 to 28.8 volts DC		
ì	4 Digital Output, High Watt Relay M12 (PNP Sourcing) (2 Amp)	RPSTR4M12A	24 volts DC		
+#	8 Digital Outputs M23 (PNP Sourcing)	RPSST8M23A	10 to 28.8 volts DC		
ŧ	2 Analog Inputs Voltage (M12)	RPSSNAVM12A	0 to 10V ± 10V		
ŧ	2 Analog Inputs Current (M12)	RPSSNACM12A	4 to 20mA or 0 to 20m		
*	2 Analog Outputs Voltage (M12)	RPSSTAVM12A	0 to 10V ± 10V		
	2 Analog Outputs Current (M12)	RPSSTACM12A	4 to 20mA or 0 to 20n		

^{*} IP67 Certified.

Reference the following Documents for Installation Instructions. † A10318, $\,^*$ A10319, $\,^\$$ A10320, $\,^*$ A10321, $\,^*$ A10322.

See www.rosscontrols.com





[†] Reference the following Documents for Installation Instructions. DeviceNet[™] - A10313, A10311; ControlNet[™] - A10315. Ethernet I/P - A10316; Profibus-DP - A10314.

[§] Requires a RPSST8M23A or RPSSV32A in all manifold assemblies. RPSSV32A is included in factory assembled manifolds and Serial Bus End Station Kits.

[#] Can be used with RPSSTERM.

ROSS Serial Bus Communications











Valve Driver Module

Description	ISO Size	Model Number
32 Point Module	00, 0, 1, 2, & 3	RPSSV32A*†
24 Output Cable	00 & 0	RPS5624P [†]
25 - 32 Output Cable	00 & 0	RPS5632P [†]
24 Output Cable	1, 2, & 3	RPS4024P [†]

- * Reference Document A10312 for Installation Instructions. See www.rosscontrols.com
- † Serial Bus Manifold assemblies and end station kits include a valve driver module (RPSSV32A) and cable.

Series W66, Size 00 / Series W66, Size 0 24 output manifolds require a RPS5624P.

Series W66, Size 00 / Series W66, Size 0 32 output manifolds require a RPS5624P + RPS5632P.

Size 1, 2, & 3 manifolds require a RPS4024P, allowing 21 outputs.

Terminating Base Module

Description	Model Number
Terminating Module	RPSSTERM

Used as the last Terminating Module for a Stand Alone Serial Bus Assembly. A RPSST8M23A must be located in the Serial Bus assembly.

Power Extender Module

Description	Voltage	Model Number
Field Power Module	24 volts DC	RPSSSE24A

A Power Extender Module must be used on every 12th Module in an Serial Bus assembly. See www.rosscontrols.com

Reference Document A10317 and A10311 for configuration instructions.

See www.rosscontrols.com

Bus Extender Cable

Description	Voltage	Model Number
1 Meter Cable*	24 volts DC	RPSSEXT1
3 Meter Cable*	24 volts DC	RPSSEXT2

* Requires a RPSSSE24A Power Extender Module. IP67 Certified.

See www.rosscontrols.com

Devicebus Terminating Resistor

Description	Model Number
DeviceNet™ M12 Type A	RP8BPA00MA
Profibus-DP M12 Type B	RP8BPA00MB

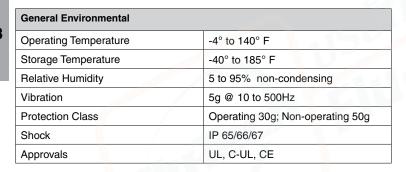


Communication Modules*

Network	Model Number	Voltage	
†§ DeviceNet™ (M18 or M12)	RPSSCDM18PA (M18) or RPSSCDM12A (M12)	10 to 28.8 volts DC	
†§ ControlNet™	RPSSCCNA	10 to 28.8 volts DC	
†§ Ethernet I/P™	RPSSCENA	10 to 28.8 volts DC	
†§ Profibus-DP®	RPSSCPBA	10 to 28.8 volts DC	

- * IP67 Certified.
- † Reference the following Documents for Installation Instructions. DeviceNet™ - A10313, A10311; ControlNet™ - A10315.
- Ethernet I/P A10316; Profibus-DP A10314.
- § Requires a RPSST8M23A or RPSSV32A in all manifold assemblies. RPSSV32A is included in factory assembled manifolds and Serial Bus End Station kits.

EDS and GSD files located at www.rosscontrols.com







Maximum Size Layout

Model Number	PointBus Current (mA)	Maximum I/O Modules with 24VDC Backplane Current at 75 mA each	Maximum I/O Modules with Expansion Power Supplies	Maximum Number of I/O Module Connections
RPSSCDM12A on DeviceNet™	antro.			
RPSSCDM18PA on DeviceNet™	1000			
RPSSCCNA on ControlNet™				5 rack and 20 direct
RPSSCENA on EtherNet/IP™		Un to 10	00	20 total connections including rack and direct
RPSSCPBA on PROFIBUS		Up to 13	63	
RPSSSE24A Expansion Power	Horizontal mounting: 1A@5V DC for 1019.2V input; 1.3A @ 5V DC for 19.228.8V input Vertical mounting: 1A @ 5V DC for 1028.8V input			Not to exceed scanner capacity

Power Supply Distance Rating

Modules are placed to the right of the power supply. Each Serial Bus module can be placed in any of the slots to the right of the power supply until the usable backplane current of that supply has been exhausted. An adapter provides 1 A current to the PointBus. The RPSSSE24A provides up to 1.3 A and I/O modules require from 75 mA (typical for the digital and analog I/O modules) up to 90 mA or more.

PointBus Current Requirements

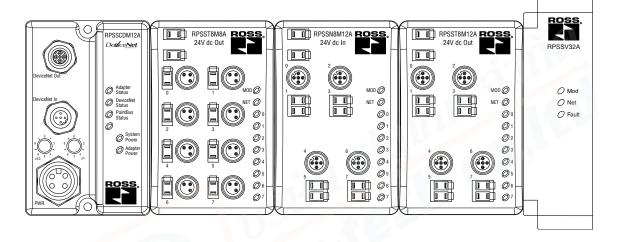
Model Number	PointBus Current Requirements	
RPSSN8xxx		
RPSSP8xxx	75 mA	
RPSST8xxx		
RPSSTR4MRA	90 mA	
RPSSNACM12A		
RPSSTACM12A		
RPSSNAVM12A	75 mA	
RPSSTAVM12A		
RPSSV32A		



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The Serial Bus family of I/O modules includes:

- Digital I/O Modules
- Analog I/O Modules
- Valve Driver Module



C

C3

Digital DC Output Modules

	RPSST8M8A RPSST8M12A RPSST8M23A
Number of Outputs	8 sourcing
Keyswitch Position	1
Voltage, On-State Output, Nom.	24 volts DC
Voltage, On-State Output, Min.	10 volts DC
Voltage, On-State Output, Max.	28.8 volts DC
Output Current Rating, Max.	3.0 A per module, 1.0 A per channel
PointBus Current (mA)	75
Power Dissipation, Max.	1.2 W @ 28.8 volts DC

Digital DC Input Modules

9		
	RPSSN8M8A RPSSN8M12A RPSSN8M23A	RPSSP8M8A RPSSP8M12A RPSSP8M23A
Number of Inputs	8 Sinking	8 Sourcing
Keyswitch Position	1	1 115
Voltage, On-State Input, Nom.	24 volts DC	24 volts DC
Voltage, On-State Input, Min.	10 volts DC	10 volts DC
Voltage, On-State Input, Max.	28.8 volts DC	28.8 volts DC
Input Delay Time, ON to OFF	0.5 ms Hardware + (065 ms selectable)*	0.5 ms Hardware + (065 ms selectable)*
Current, On-State Input, Min.	2 mA	2 mA
Current, On-State Input, Max.	5 mA	5 mA
Current, Off-State Input, Max.	1.5 mA	1.5 mA
PointBus Current (mA)	75	75
Power Dissipation, Max.	1.0 W @ 28.8 volts DC	1.0 W @ 28.8 volts DC
* Input ON-to-OFF delay time is the time from a valid input signal to recognition by		

Input ON-to-OFF delay time is the time from a valid input signal to recognition by the module.

Relay Output Module

	RPSSTR4M12A	
Number of Outputs	4 Form A (N.O.) relays, isolated	
Keyswitch Position	7	
Output Delay Time, ON to OFF, Max.	26 ms*	
Contact Resistance, Initial	30 mΩ	
Current Leakage, Off-State Output, Max.	1.2 mA and bleed resistor thru snubber circuit @ 240 volts AC	
PointBus Current (mA)	90	
Power Dissipation, Max.	0.5 W	
*Time from valid output off signal to relay de-energization by module.		

Analog Input Modules

RPSSNACM12A	RPSSNAVM12A
2	2
3	3
420 mA 020 mA	010V ±10V
16 bits - over 21 mA 0.32 μA/cnt	15 bits plus sign 320 μV/cnt in unipolar or bipolar mode
0.1% Full Scale @ 25°C*†	_
_	0.1% Full Scale @ 25°C*†
70 ms @ Notch = 60 Hz (default) 80 ms @ Notch = 50 Hz 16 ms @ Notch = 250 Hz 8 ms @ Notch = 500 Hz	70 ms @ Notch = 60 Hz (default) 80 ms @ Notch = 50 Hz 16 ms @ Notch = 250 Hz 8 ms @ Notch = 500 Hz
Delta Sigma	Delta Sigma
75	75
0.6 W @ 28.8 volts DC	0.6 W @ 28.8 volts DC
	2 3 420 mA 020 mA 16 bits - over 21 mA 0.32 μA/cnt 0.1% Full Scale @ 25°C** 70 ms @ Notch = 60 Hz (default) 80 ms @ Notch = 50 Hz 16 ms @ Notch = 250 Hz 8 ms @ Notch = 500 Hz Delta Sigma

^{*} Includes offset, gain, non-linearity and repeatability error terms.

Analog Output Modules

Model Number	RPSSTACM12A	RPSSTAVM12A
Number of Outputs	2	2
Keyswitch Position	4	4
Output Signal Range	420 mA 020 mA	010V ±10V
Output Resolution, Bits	13 bits - over 21 mA 2.5 μA/cnt	14 bits (13 plus sign) 1.28 mV/cnt in unipolar or bipolar mode
Absolute Accuracy, Current Output	0.1% Full Scale @ 25°C*†	_
Absolute Accuracy, Voltage Output	4	0.1% Full Scale @ 25°C*†
Step Response to 63% of FS,	24 μs	— Current Output
Step Response to 63% of FS,	_	20 µs Voltage Output
Output Conversion Rate	16 µs	20 μs
PointBus Current (mA)	75	75
Power Dissipation, Max.	1.0 W @ 28.8 volts DC	1.0 W @ 28.8 volts DC
* In all the afficial and a second to a se		

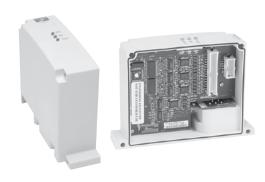
^{*} Includes offset, gain, non-linearity and repeatability error terms.

Step 3

Select Valve Driver Module for ROSS Bus System

Valve Driver Module Specifications

Model Number	RPSSV32A
Outputs per Module	32, sourcing
Voltage Drop, On-State Output, Maximum	0.2 volts DC
Voltage, Off-State Output, Maximum	28.8 volts DC
Voltage, On-State Output, Maximum Minimum Nominal	28.8 volts DC 10 volts DC 24 volts DC
Output Current Rating	200 mA per channel, not to exceed 6.0 A per module
Output Surge Current, Maximum	0.5 A for 10 ms, repeatable every 3 seconds
Current Leakage, Off-State Output, Maximum	0.1 mA
Current, On-State Output Minimum	200 mA per channel
Output Delay Time OFF to ON, Maximum ¹	0.1 ms
Output Delay Time, ON to OFF, Maximum ¹	0.1 ms
External DC Power Supply Voltage Range	10 to 28.8 volts DC
External DC Power Supply Voltage Nominal	24 volts DC
OFF to ON or ON to OFF delay is time from a valid output energization or de-energization.	output "on" or "off" signal to



The RPSSV32A valve driver module provides an interface between the Serial Bus system and the valve assembly. This module will always be the last module on the Serial Bus. It controls 32 digital outputs at 24 volts DC. Depending on the valve selection, it can control up to 32 single solenoid valves or 16 double solenoid valves.

Analog input modules support these configurable parameters and diagnostics: open-wire with LED and electronic reporting; four-alarm and annunciation set-points; calibration mode and electronic reporting; under- and over-range and electronic reporting; channel signal range and update rate and on-board scaling; filter-type; channel update rate.

Analog output modules support these configurable parameters and diagnostics: open-wire with LED and electronic reporting (RPSSTACM12A only); fault mode; idle mode; alarms; channel signal range and on-board scaling.

Select the Appropriate Power Supply Unit

Serial Bus adapters have built-in PointBus power supplies. All Serial Bus modules are powered from the PointBus by either an adapter or expansion power supply.

Power Specifications

Model Number	Power Supply Input Voltage, Nom.	Operating Voltage Range	Field Side Power Requirements, Max.	Power Supply Inrush Current, Max.	Input Overvoltage Protection	Power Supply Interruption Protection
RPSSCDM12A					0.7	
RPSSCDM18PA						
RPSSCCNA	24 volts DC	10 00 0 volto DC	24 volts DC	6 A for 10 ms	Reverse polarity	Output voltage will stay within specifications when
RPSSCENA	24 VOIIS DC 10.	1028.8 volts DC (+20% = 28.8VDC) @ 400 mA	6 A IOI TO IIIS	protected	input drops out for max. load.	
RPSSCPBA					LE	
RPSSSE24A				1/1/1		

Power units are divided into two categories:

- Communication adapters with built-in power supply (DC-DC)
- · Expansion power supply

Expansion Power Unit

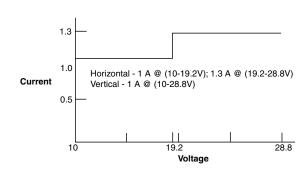
The RPSSSE24A expansion power unit passes 24 volts DC field power to the I/O modules to the right of it. This unit extends the backplane bus power and creates a new field voltage partition segment for driving field devices for up to 13 I/O modules. The expansion power unit separates field power from I/O modules to the left of the unit, effectively providing functional and logical partitioning for:

- Separating field power between input and output modules
- Separating field power to the analog and digital modules
- · Grouping modules to perform a specific task or function

You can use multiple expansion power units with any of the communication adapters to assemble a full system. If you are using the RPSSCDM12A adapter, you may use a RPSSSE24A expansion power unit to add additional modules. For example, if you had a 36 module system with a RPSSCDM12A adapter, you would have at least two or more RPSSSE24A expansion power units to provide more PointBus current for modules to the right of the supply.

- 24 volts DC to 5 volts DC converter
- 1.3A, 5 volts DC output (extend backplane power)
- Starts new voltage distribution
- Partitioning

RPSSSE24A Current Derating for Mounting



Power Distribution General Specifications

Model Number	RPSSSE24A	
Power Supply Requirements	Note: In order to comply with CE Low Voltage Directives (LVD), you must use a Safety Extra Low Voltage (SELV) or a Protected Extra Low Voltage (PELV) power supply to power this adapter	
Field Side Power Requirements	24 volts DC (+20% = 28.8 volts DC max.) @ 400 mA	
Inrush Current, Max.	6 A for 10 ms	
Input Overvoltage Protection	Reverse polarity protected	
Power Supply Interruption Protection	Output voltage will stay within specifications when input drops out for 10 ms at 10V with max. load	
Power Supply Input Voltage, Nom.	24 volts DC	
Operating Voltage Range	1028.8 volts DC	
Power Consumption, Max.	9.8 W @ 28.8 volts DC	
Power Dissipation, Max.	3.0 W @ 28.8 volts DC	
Thermal Dissipation, Max.	10.0 BTU/hr @ 28.8 volts DC	
Isolation Voltage	1250 V rms	
Field Power Bus Supply Voltage, Nom.	12 volts DC or 24 volts DC	
Field Power Bus Supply Current, Max.	10 A	



Serial Bus Digital Input Module Cables

Model Number	For Using:	Recommended Rockwell Automation Patchcord (double-ended)	Recommended Rockwell Automation Male Cordset (single-ended)
RPSSN8M12A	2 inputs per connector	879D-F4ACDM-x	879-C3AEDM4-5
RPSSP8M12A	1 input per connector	889D-F4ACDM-x	889D-M4AC-y
RPSSN8M8A	3-Pin Pico connectors	889P-F3ABPM-x	COOP MOAP
RPSSP8M8A	4-Pin Pico connectors	889P-F4ABPM3-x	889P-M3AB-y
RPSSN8M23A			
RPSSP8M23A	M23, 12-Pin	889M-F12AHMU-z	
RPSST8M23A			

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

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

z = length in meters (1, 2, and 3 standard)

For more cables and cordsets, please refer to www.connector.com

C3

Serial Bus Analog Inputs and Outputs

Model Number	For Using:	Recommended Cable
RPSSNAVM12A	1 :	804507P20M020 (Shielded)*
RPSSNACM12A	1 input per connector	
RPSSTAVM12A	A Landau Control	
RPSSTACM12A	1 output per connector	
* Refer to www.connector.com		

Serial Bus Digital Output Module Cables

Model Number	For Using:	Recommended Rockwell Automation Patchcord (double-ended)	Recommended Rockwell Automation Male Cordset (single-ended)	
RPSST8M12A	2 inputs per connector	879D-F4ACDM-x	879-C3AEDM4-5	
	1 input per connector	889D-F4ACDM-x	889D-M4AC-y	
RPSST8M8A	3-Pin Pico connectors	889P-F3ABPM-x	OOOD MOAD	
HP3510IVIOA	4-Pin Pico connectors	889P-F4ABPM3-x	- 889P-M3AB-y	

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

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

For more cables and cordsets, please refer to www.connector.com

Serial Bus Relay Output Module Cables

Model Number	Recommended Rockwell Automation Patchcord (double-ended)	Recommended Rockwell Automation Male Cordset (single-ended)	
RPSSTR4M12A	889D-F4ACDM-x	889D-M4AC-y	

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

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

For more cables and cordsets, please refer to www.connector.com



C3

Serial Bus DeviceNet[™] and Auxiliary Power Cables

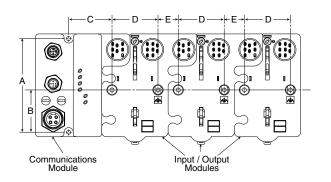
Model Number Network		Recommended Rockwell Automation Network Cable	Recommended Rockwell Automation Auxiliary Power Cables	
RPSSCDM12A RPSSCDM18PA	DeviceNet™	KwikLink Flat Media system standard drop cable: 1485K-PzF5-R5	Standard Cordset (single-ended):	
		Thin Round system standard drop cable: 1485R-PzN5-M5		
		Thick Round system standard drop cable: 1485C-PzN5-M5		
	ControlNet™	BNC to TNC Connector is required when using BNC Cordsets. See www.amphenolrf.com	Standard Patchcord (double-ended): 889N-F4AFNC-x	
RPSSCENA	EtherNet/IP™			
RPSSCPBA	PROFIBUS DP		Standard Cordset (single-ended): 889N-F5AFC-y	

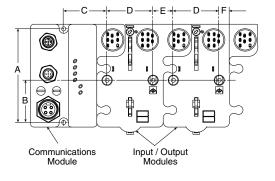
x = length in meters (1, 2, 3, and 6 standard)

For more cables and cordsets, please refer to www.connector.com

Serial Bus Valve Driver Module Harness Assemblies

ISO Size	Model Number		
	1 to 24 Outputs	25 to 32 Outputs	
0 and Size 00	RPS5624P	RPS5632P	
1, 2, & 3	RPS4024P	RPS4032P	





Dimensions - inches (mm)							
A	В	С	D	E	F		
4.0 (102)	1.8 (46)	1.9 (48)	2.0 (50)	0.87 (22)	0.43 (11)		



y = length in feet (6, 12, and 20 standard)

z = length in feet (1, 2, 3, 4, 5, and 6 standard)