

		
Bulletin No.	100-DN	198
Type	DeviceNet Starter Auxiliary	Modular DSA I/O for Distributed Starters
Features	• The DeviceNet System Accessory (DSA) allows Components without Communication ability to be connected to DeviceNet • Reduced installation, engineering and startup costs • Relay or Transistor Outputs • Input 24V DC or 120V AC • Diagnostics over Communication • Easy Plug-in Terminal Block Connections • LED Indicators for I/O Status	• Direct mounting on gland plate • Function specific modules • Developed for heavy industrial applications • Flexible mounting • Compact size • ODVA v2.0 approved
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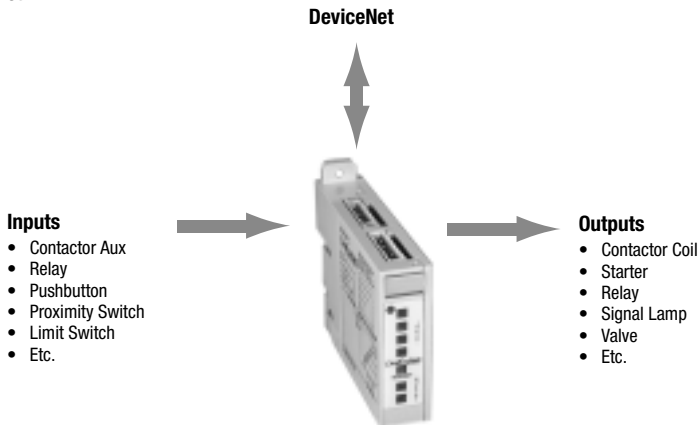
DeviceNet Starter Auxiliary DSA I/O for Distributed Starters



- Includes complete connector plug set
- Screw- or snap-on mounting to 35 mm DIN Rail (EN 50 022)

Inputs	Outputs	Cat. No.	PQ
4 DC (24V DC)	2 x N.O. Relay (240V AC/30V DC)	100-DNY42R	1
4 DC (24V DC)	2 x Solid State (30V DC)	100-DNY42S	
4 AC (120V AC)	2 x N.O. Relay (240V AC/30V DC)	100-DNY41R	

DeviceNet



PQ = Package Quantity

Bulletin 100, 198

Communication

Product Selection: Bulletin 198

Modular DSA I/O for Distributed Starters

DeviceNet Module



- Standard industrial plug — Micro type M12 (external), exchangeable COMBI-CON (internal)
- Supports up to 16 I/O modules with one DeviceNet node
- Selector switches allow address setting by hardware or software
- Auto baud
- Selectable input filter times
- Polling, cyclic or COS (change-of-state) messaging — including COS masking
- Resettable faulty I/O

Description	Cat. No.	PQ
Gland plate mounting with DeviceNet micro connector M12	198-DNG	1
DIN Rail mounted	198-DN	

I/O Starter Module

- Inputs and outputs on the same module eliminate need of 2 modules
- High current switching capacity (5 A relay and 2 A transistor) eliminate need for interposing relays
- Transistor outputs contain diode suppression
- User-selectable input filter times minimise the affect of contact bounce
- Pluggable connections
- Modules can be mounted on DIN Rails or gland plates

Description	Input	Output	Cat. No.	PQ
120V AC inputs and outputs	2 AC (120V AC)	1 relay (120V)	198-IA2XOW1	1
24V DC inputs and outputs	2 DC (24V DC)	1 transistor (24V)	198-IB2XOB1	
24V DC inputs 250V AC relay outputs	2 DC (24V DC, internal power supply)	1 relay (250V)	198-IB2XOW1	

Gland Plate



- For use with modular DSA
- For DeviceNet and I/O modules
- Integrated grounding for I/O modules
- Supports up to 6 I/O modules, + 1 DeviceNet module
- Rigid fixed seal provides IP66 protection (NEMA Type 3/4/12)

Description	Cat. No.	PQ
Plastic gland plate 63 x 133 mm	198-G1P	1
Marker cards (100 labels per card)	1492-SM8X9	5

PQ = Package Quantity

Input Module



IB2S



IB4

- Modules mounted on DIN Rail or gland plates
- Type 1+ inputs minimise the probability of false signals
- User-selectable input filter times minimise faulty inputs
- DC sensors make direct connection to 198-IB2S modules

Description	Input	Cat. No.	PQ
Gland plate mounted DC sensor module • M12 plugs for easy sensor connections • Detection of open and short-circuited sensor offer diagnostic information • PNP/NPN switches ensures compatibility with sensors	2 DC (24V DC, internal power supply)	198-IB2S	1
DIN Rail mounted 120V AC inputs	2 AC	198-IA2	1
DIN Rail mounted 24V DC inputs	4 DC (24V DC, internal power supply)	198-IB4S	1
	4 DC (external power supply)	198-IB4	

Output Module



OW2

- DIN Rail mounted modules, mounted on DIN Rail or gland plate
- 5 A relay eliminates need for interposing relays
- Pluggable connections

Description	Output	Cat. No.	PQ
DIN Rail mounted relay outputs	2 relays (120V)	198-OW2	1
Pneumatic valve module, gland plate mounted relay outputs (120V)	2 relays (120V)	198-OW2-G4	1
Pneumatic valve module, gland plate mounted 24V DC outputs	2 transistors (24V)	198-OW2S-Q5	1

PQ = Package Quantity

DeviceNet Media ❶
KwikLink Connector with Cut / Clamping Technique

		Description	Cat. No.	PQ
	Fast connection of distributed starters to the DeviceNet network	Micro coupling M12	1485P-P1E4-R5	❷ 1

❷ Must be order with connection cable see following table

KwikLink Flat Cable Trunk (Only for use with KwikLink connector 1485P-P1E4-R5)

Spool		Rating	Use	Jacket Material	Colour	Cat. No.	PQ
75 m	 Class 1 Flat Cable	24V DC, 8 A (Class 1)	DeviceNet Trunk	TPE	Grey	1485C-P1E75	1
		24V DC, 4 A (Class 2)	DeviceNet Trunk	PVC	Light Grey	1485C-P1G75	
		24V DC, 8 A (Class 1)	Aux Power Trunk		Black	1485C-P1L75	
200 m	 Class 2 Flat Cable	24V DC, 8 A (Class 1)	DeviceNet Trunk	TPE	Grey	1485C-P1E200	1
		24V DC, 4 A (Class 2)	DeviceNet Trunk	PVC	Light Grey	1485C-P1G200	
		24V DC, 8 A (Class 1)	Aux Power Trunk		Black	1485C-P1L200	
420 m	 Auxiliary Power Flat Cable	24V DC, 8 A (Class 1)	DeviceNet Trunk	TPE	Grey	1485C-P1E420	1
		24V DC, 4 A (Class 2)	DeviceNet Trunk	PVC	Light Grey	1485C-P1G420	
		24V DC, 8 A (Class 1)	Aux Power Trunk		Black	1485C-P1L420	

KwikLink General Purpose connector

		Description	Cat. No.	PQ
		KwikLink General Purpose Connector	Micro Style	1485P-K1E4-R5
				❸ 1

❸ Must be order with connection cable see following table

KwikLink General Purpose Flat Cable Trunk (Only for use with KwikLink General Purpose connector 1485P-K1E4-R5)

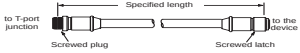
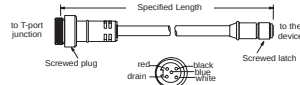
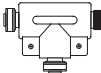
Spool		Rating	Use	Jacket Material	Colour	Cat. No.	PQ
75 m		24V DC 4 A (Class 2)	DeviceNet Trunk	PVC	Grey	1485C-P1K75	1
200 m						1485C-P1K200	
420 m						1485C-P1K420	

Note: KwikLink General Purpose Flat Cable is not recommended for use with original heavy duty KwikLink connectors.

❶ For use with distributed starters. See publication C114 and DN-2.15 for complete cable selection information.

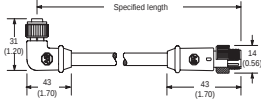
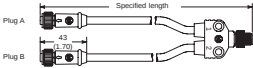
PQ = Package Quantity

DeviceNet Media ❶, continued

	Description		Cat. No.	PQ
	DeviceNet Micro plug on Micro Coupling	Micro plug 90°, 1 m Micro coupling	1485K-P1F5-R5	1
		Micro plug 90°, 2 m Micro coupling	1485K-P2F5-R5	
		Micro plug 90°, 3 m Micro coupling	1485K-P3F5-R5	
		1 m	1485R-P1R5-F5	
		2 m	1485R-P2R5-F5	
		3 m	1485R-P3R5-D5	
		4 m	1485R-P4R5-D5	
	DeviceNet Mini - Plug on Micro Coupling	1 m	1485R-P1M5-R5	1
		2 m	1485R-P2M5-R5	
		3 m	1485R-P3M5-R5	
	DeviceNet Mini T-Port Junction	Key groove right	1485P-P1N5-MN5R1	1
		Key groove left	1485P-P1N5-MN5L1	

❶ For use with distributed starters. See publication C114 and DN-2.15 for complete cable selection information.

Sensor Media ❷

	Description		Cat. No.	PQ
	Screwed Micro Plug M12 / Micro Coupling M12 • Use with 198-IB2S Module	1 m	889D-F4ACDM-1	1
		2 m	889D-F4ACDM-2	
		5 m	889D-F4ACDM-5	
	Screwed Y-cable Micro Coupling M12 / 2 x Micro plugs M12 • Use with 198-IB2S Module	0.3 m	879D-F4ACDM-0M3	1
		1 m	879D-F4ACDM-1	
		2 m	879D-F4ACDM-2	

Connecting Accessories ❸

	Description	Cat. No.	PQ
	DC Micro tee • Use with 198-OW2S-Q5 Module	898D-53PY-D5	1
	AC Micro tee • Use with 198-OW2-G4 Module	898R-33PYX-R3	

❷ For use with Modular DSA I/O modules. If not otherwise indicated the cables have 4 pins, 1 key nut, 0.33 mm / 22 AWG conductor cable formed with oil resistant PVC. See publication C114 for complete cable selection information.

❸ For use with MDSA-Output modules. See publication C114 for complete cable selection information.

PQ = Package Quantity