SWITCHOVER DOCUMENT

EX500-S103 Series
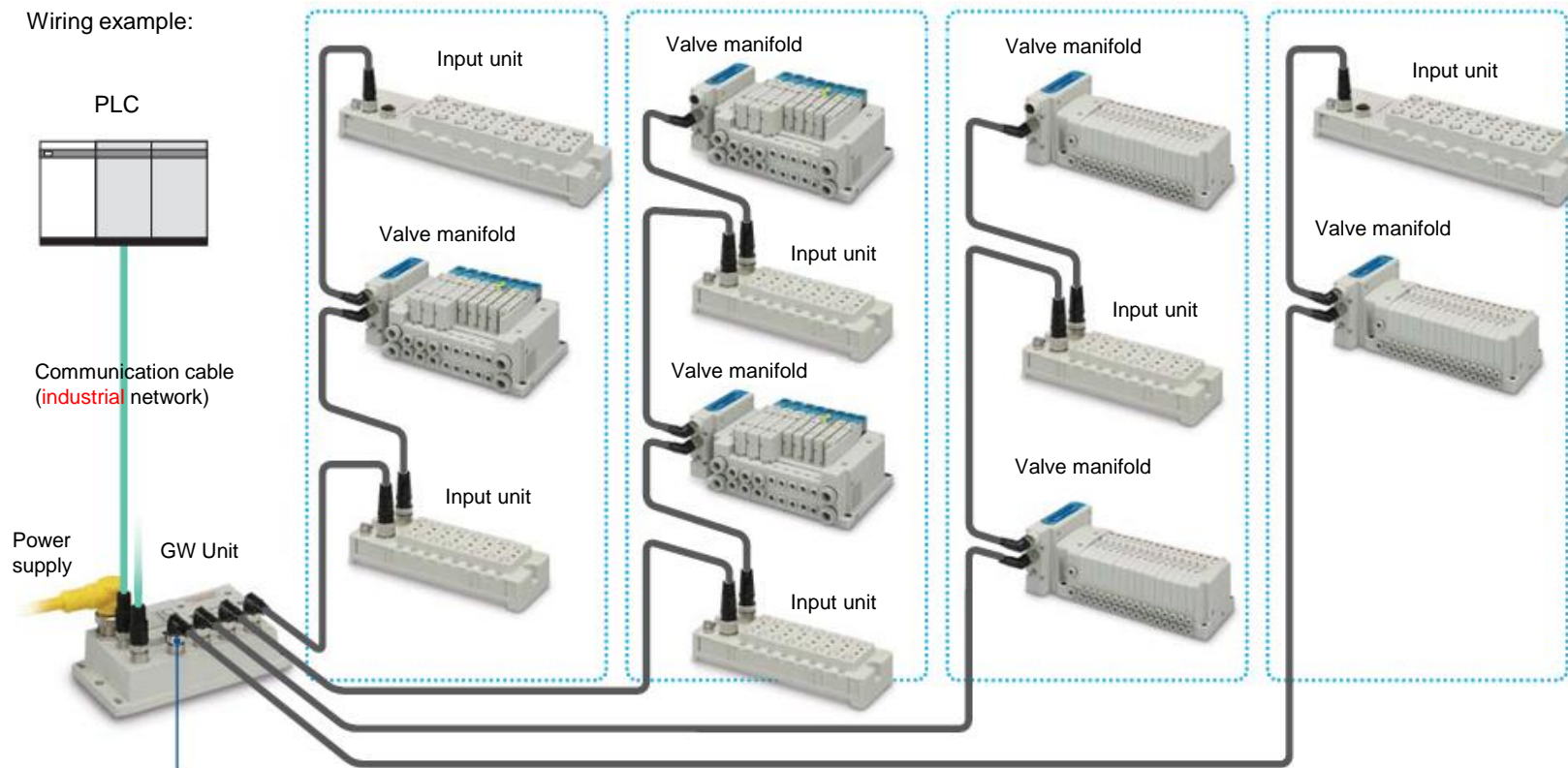SI Unit - Gateway Decentralised System 2
(128 Points)

Feature

- The SI Unit is compatible with the Gateway Decentralised System 2 (128 Points):
    - Protocol: PROFINET, EtherNet/IP
    - Number of inputs/outputs (number of inputs/outputs per branch): 128 inputs/128 outputs (32 inputs/32 outputs)
    - Number of valve manifold connections (number of connections per branch): max. 8 units (max. 2 units)
    - Number of input unit connections (number of connections per branch): max. 8 units (max. 2 units).

Customer Benefit

- Possibility of connecting through common protocols and greater configuration flexibility by incrementing the number of units that can be installed.

Wiring example:

PLC

Communication cable (industrial network)

Power supply

GW Unit

Input unit

Valve manifold

Input unit

Valve manifold

Valve manifold

Input unit

Input unit

Valve manifold

Input unit

Valve manifold

Input unit

Valve manifold

Input unit

Valve manifold

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Feature

- Web server function: valve operation test (ON/OFF), connection diagnostic between valve manifold and input unit, and short-circuit diagnostic of input device can be performed on a web browser.
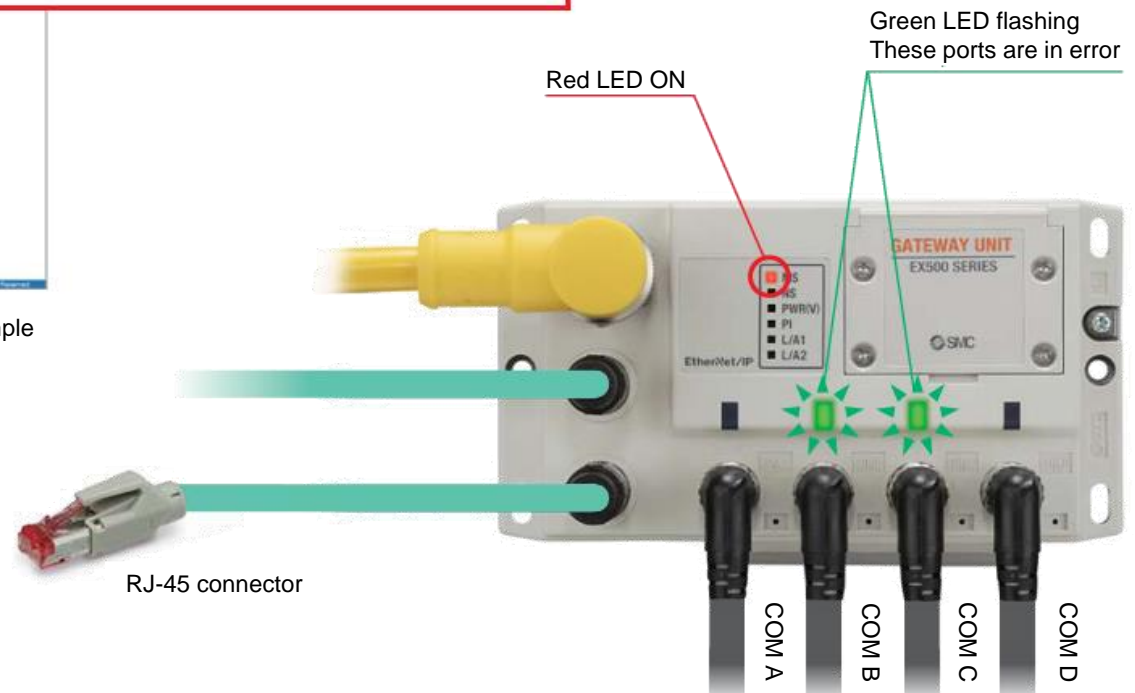
Customer Benefit

- On-board diagnostics and data setting thereby improving control of the application.

Details of the error can be identified on a web browser

Web display example

PC

RJ-45 connector

Red LED ON

Green LED flashing
These ports are in error

COM A

COM B

COM C

COM D

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Improved features and related benefits

Feature

- The SI Unit has a built-in setting switch which switches the number of outputs (32 points / 16 points) of the valve manifold connected to the SI Unit. By setting the number of outputs to 16 points, two valve manifolds can be installed to one branch port.
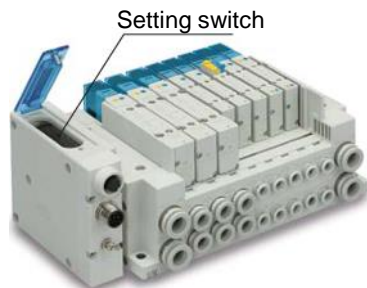
Customer Benefit

- Part number simplification and reduction of stock, while increasing the configuration capabilities.

Feature

- Applicable valve series: SY3000/5000/7000, VQC1000/2000/4000/5000, S0700, SV1000/2000/3000 (tie-rod base).

Customer Benefit

- Great valve combination to adapt the needs of each application.

SY3000/5000/7000

S0700

Setting switch

SI unit

VQC1000/2000/4000/5000

SV1000/2000/3000 (tie-rod base)

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Standard Specification

Model	EX500-S001 EX500-Q001 EX500-Q101 EX500-Q002 EX500-Q102	EX500-S103
Type	SI Unit (64 points)	SI Unit (128 points)
Gateway system compatibility	Gateway Decentralised System	Gateway Decentralised System 2 Gateway Decentralised System
Protocol	PROFIBUS, DeviceNet	PROFINET, EtherNet/IP PROFIBUS, DeviceNet
Number of inputs/outputs (Number of inputs/outputs per branch)	64 inputs/64 outputs (16 inputs/16 outputs)	128 inputs/128 outputs (32 inputs/32 outputs)
Number of valve manifold connections (Number of connections per branch)	Max. 4 Units (1 Unit)	Max. 8 Units (Max. 2 Units)
Number of input unit connections (Number of connections per branch)	Max. 4 Units (1 Unit)	Max. 8 Units (Max. 2 Units)
Branch cable length	Max. 10 m	Max. 20 m
SI Unit enclosure	IP67	IP67
Function	-	Web server function (Valve operation test, connection diagnostic, short-circuit diagnostic)
Weight	105 – 115 g	200 g

Difference in specifications

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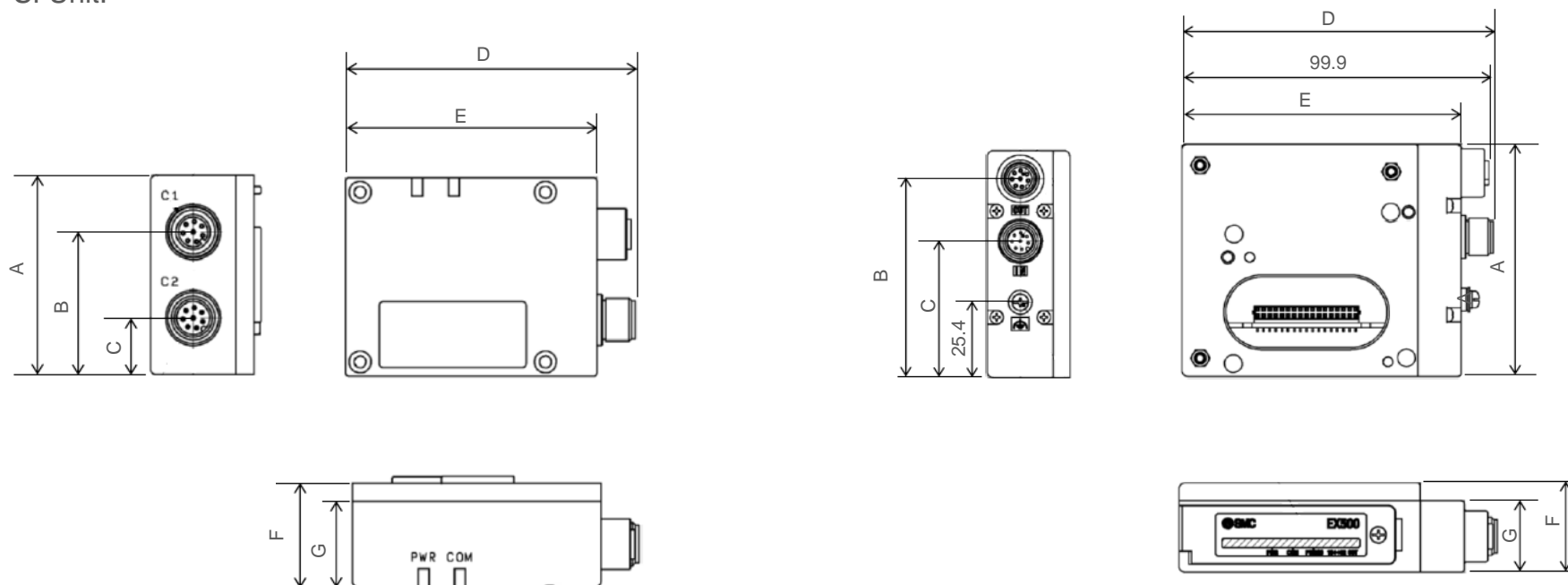
Dimensions
SI Unit.

Current product (EX500-S001 Series)

New product (EX500-S103 Series)

	A		B		C		D		E		F		G	
SI Unit	54.5	76.5	39	67	15.5	46	79.4	101.4	68.5	90.9	28.6	28.2	23.6	22.5

Difference in specifications

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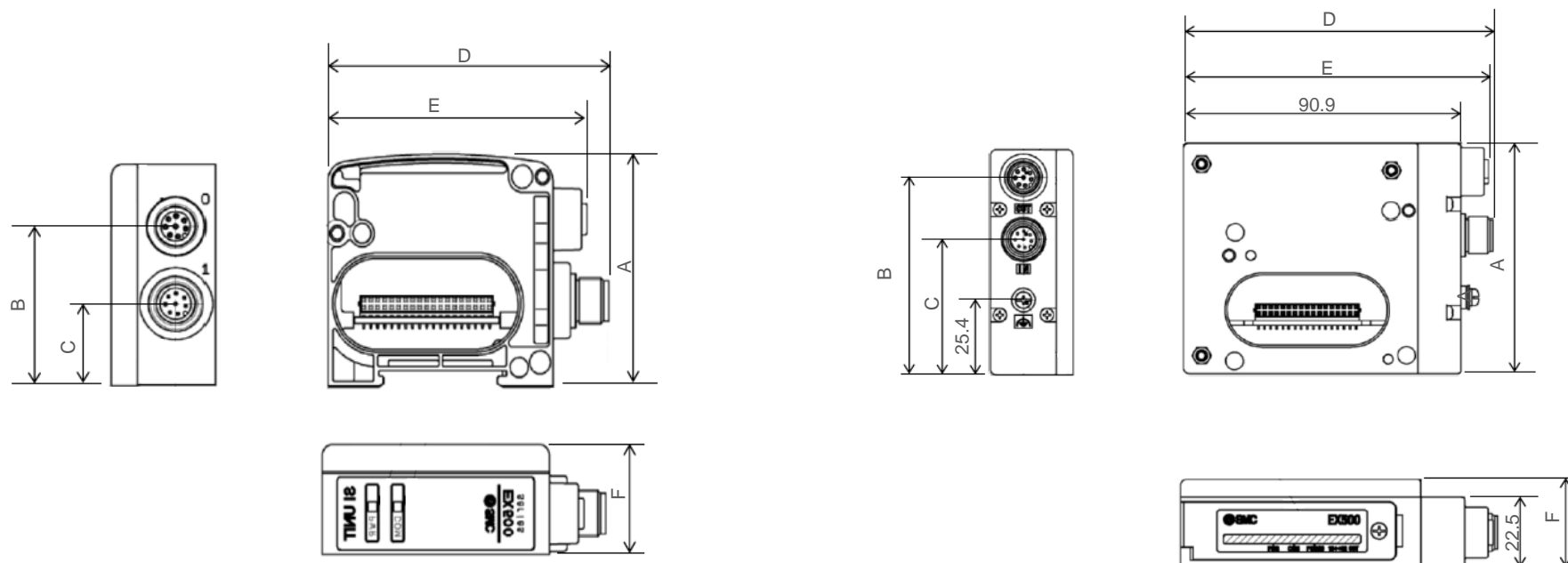
Dimensions
SI Unit.

Current product (EX500-Q001/Q101 Series)   New product (EX500-S103 Series)

	A		B		C		D		E		F	
SI Unit	60	76.5	43.2	67	22.2	46	80.3	101.4	74.1	99.9	28	28.2

☐ Difference in specifications

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Dimensions
SI Unit.
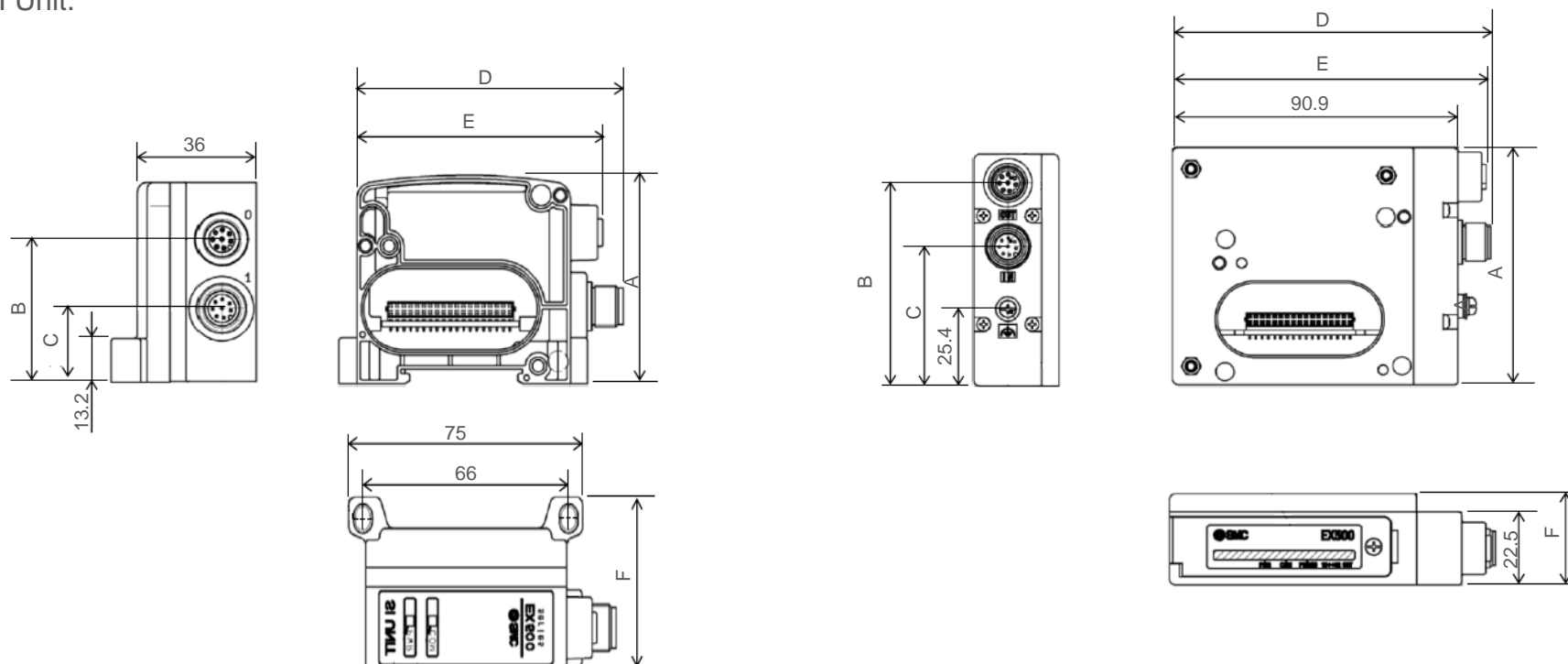
Current product (EX500-Q002/Q102 Series)   New product (EX500-S103 Series)

	A		B		C		D		E		F	
SI Unit	60	76.5	43.2	67	22.2	46	80.3	101.4	74.1	99.9	44	28.2

Difference in specifications

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