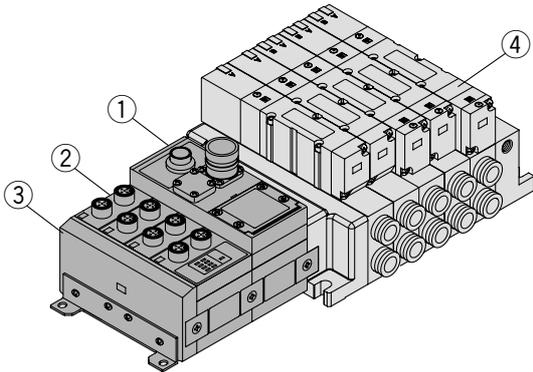


Integrated Type/ For Input/Output Series **EX240**

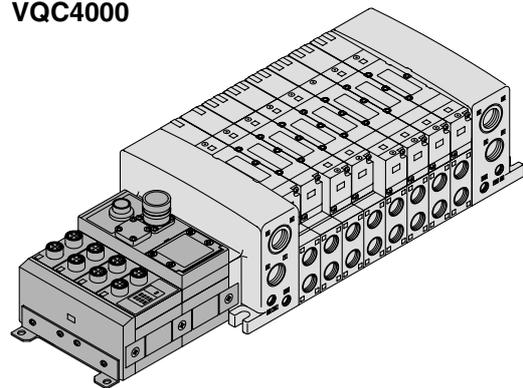


- ★ Enclosure IP65
- ★ Maximum 32 inputs/32 outputs
- ★ Connection of sensors with M12 connectors is possible

VQ2000/4000



VQC4000



No.	Type	Function
1	SI unit	Compatible with various field buses
2	DI unit	Connection of sensors with M12 connectors, Max. 8 inputs/unit
3	End case assembly	Direct mounting, DIN rail mounting
4	Manifold valve	Max. 32 points actuation

How to Order

SI unit

EX240-S DN2

• Communication protocol

DN2	DeviceNet
PR1	PROFIBUS DP

Note) Please consult SMC for the applicable networks other than the above.

End case assembly

EX240-EA 2

• Mounting specifications

2	Direct mounting
3	DIN rail mounting (For VQ valves)
4	Without mounting holes (Without DI unit)

DI unit

EX240-IE1

How to Order Option

Cable with connector

This is a cable to supply power to the SI unit.

EX240-AC30

Cable length	3 m
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Series EX240

SI Unit Specifications

Model		EX240-SDN2	EX240-SPR1
Communication specification	Applicable system	DeviceNet	PROFIBUS DP
	Protocol Version ^{Note 1)}	Release 2.0	DP-V0
	Communication speed	125 k/250 k/500 kbps	9.6 k/19.2 k/93.75 k/187.5 k/500 kbps 1.5 M/3 M/6 M/12 Mbps
	Specified file ^{Note 2)}	EDS file	GSD file
	Occupied area (Number of inputs/outputs)	32/32	
Terminal resistor	Not applicable		
Power supply	For unit	11 to 25 VDC	24 VDC±20%
	For sensors	24 VDC±20%	
	For valve	24 VDC+10%/−5%	24 VDC+10%/−5%
Internal current consumption (Unit)	100 mA or less	200 mA or less	
Input specification	Number of inputs	32 points (According to the number of DI unit connection)	
	Supply voltage	24 VDC	
	Supply current	2.0 A or less	
Output specification	Output type	NPN output (+COM.)	PNP (−COM.)
	Number of outputs	32 points	
	Connection load	SMC: Solenoid valve with light/surge voltage suppressor (24 VDC, 2.1 W or less)	
	Supply voltage	24 VDC	
	Supply current	3.2 A or less	
	Output when communication error occurs	Hold/Clear (Switch setting)	Clear
Environmental resistance	Enclosure	IP65	
	Operating temperature range	5 to 45°C	
	Operating humidity range	35 to 85%RH (With no condensation)	
	Withstand voltage	1500 VAC for 1 min. between external terminals and FG	
	Insulation resistance	10 MΩ or more (500 VDC) between external terminals and FG	
	Vibration resistance	10 to 150 Hz with a 0.35 mm amplitude or 49 m/s ² in each X, Y, Z direction for 2 hrs (De-energized)	
	Impact resistance	147 m/s ² , in each X, Y, Z direction, 3 times (De-energized)	
Standard	CE marking		
Accessory ^{Note 3)}	Modular adopter assembly 2 pcs., Joint assembly 1 pc.		

Note 1) Please note that the version is subject to change

Note 2) Each file can be downloaded from SMC's website (<http://www.smcworld.com/>).

Note 3) When the SI unit is mounted to the manifold when shipped, accessories are shipped together with it.

Note 4) For detailed specifications other than the above, refer to the separate technical operation manual that can be downloaded from SMC's website (<http://www.smcworld.com/>).

DI Unit Specifications

Model		EX240-IE1
Input specification	Input type	PNP/NPN sensor input (switched using a switch)
	Number of inputs	8 points
	Input device supply voltage	24 VDC
	Input device supply current	Max. 60 mA/point, 500 mA/unit ^{Note 1)}
	Rated input current	Approx. 8 mA
	Display	Green LED (Illuminated when the power supply for the SI unit sensor is applied), Yellow LED (Illuminated when the input signal is turned on.)
	Connector on the input device side	M12 connector (4 pins, plug or 5 pins, plug)
Environmental resistance	Enclosure	IP65
	Operating temperature range	5 to 45°C
	Operating humidity range	35 to 85%RH (With no condensation)
	Withstand voltage	1500 VAC for 1 min. between external terminals and FG
	Insulation resistance	10 MΩ or more (500 VDC) between external terminals and FG
	Vibration resistance	10 to 150 Hz with a 0.35 mm amplitude or 49 m/s ² in each X, Y, Z direction for 2 hrs (De-energized)
Impact resistance	147 m/s ² , in each X, Y, Z direction, 3 times (De-energized)	
Standard	CE marking	
Accessory ^{Note 2)}	Modular adopter assembly 2 pcs., Joint assembly 1 pc.	

Note 1) Short circuit protection works at 600 mA per each DI unit, and sensor power supply stops.

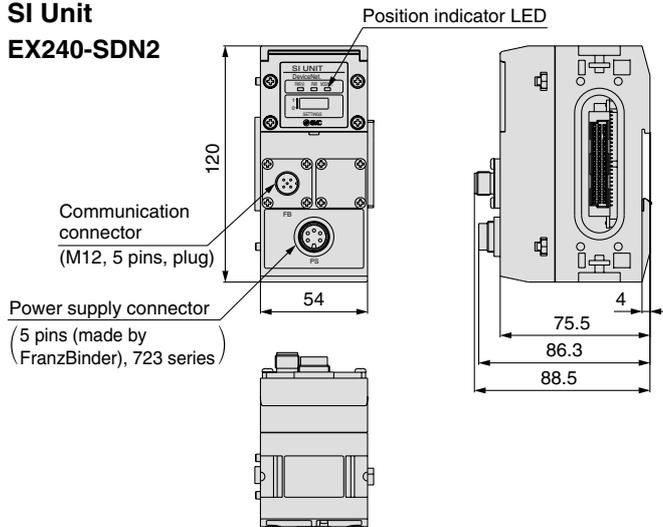
Note 2) When the DI unit is mounted to the manifold when shipped, accessories are shipped together with it.

Note 3) For detailed specifications other than the above, refer to the separate technical operation manual that can be downloaded from SMC's website (<http://www.smcworld.com/>).

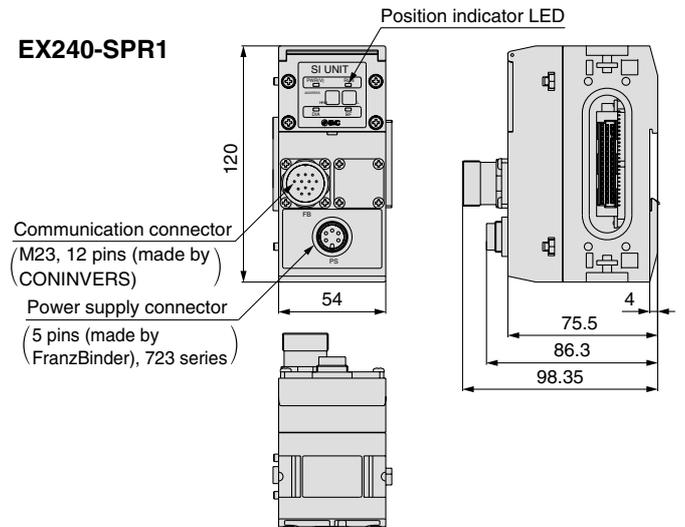
Dimensions

SI Unit

EX240-SDN2

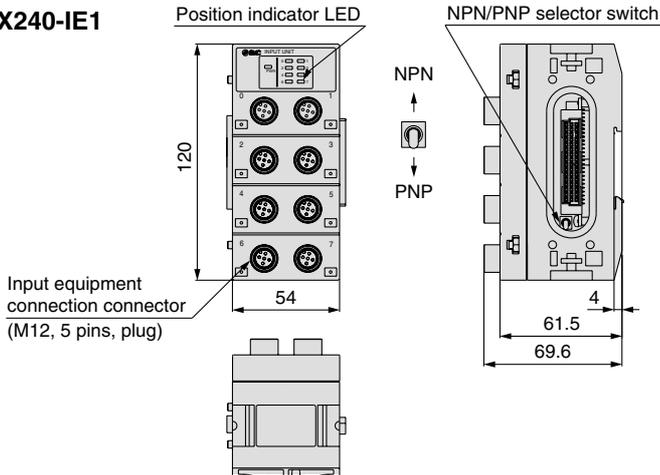


EX240-SPR1



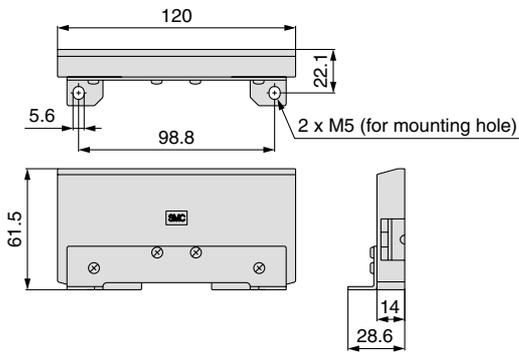
DI Unit

EX240-IE1

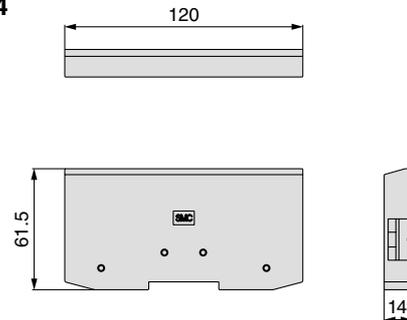


End Case Assembly

EX240-EA2



EX240-EA4



EX240-EA3

