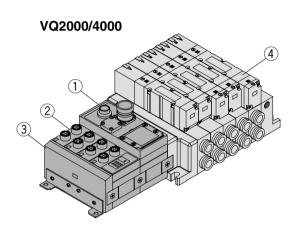
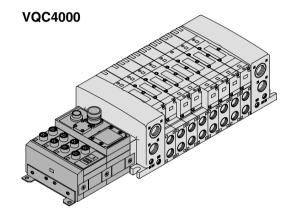
Integrated Type/ For Input/Output

Series EX240



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





No.	Туре	Function
1	SI unit	Compatible with various field buses
2	DI unit Connection of sensors with M12 connectors, Max. 8 inputs/u	
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



SI Unit Specifications

Model			EX240-SDN2	EX240-SPR1	
	Applicable system	Protocol	DeviceNet	PROFIBUS DP	
<u>.</u> .		Version Note 1)	Release 2.0	DP-V0	
Communication specification	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	
m m	Specified file Note 2)		EDS file	GSD file	
Sol	Occupied area (Number of inputs/outputs)		32/32		
	Terminal resistor		Not applicable		
_	For unit For sensors		11 to 25 VDC	24 VDC±20%	
Power supply			24 VDC±20%	24 VDC±20 /6	
Supply	For valve		24 VDC+10%/-5%	24 VDC+10%/-5%	
Internal current consumption (Unit)		tion (Unit)	100 mA or less	200 mA or less	
Input	Number of inputs		32 points (According to the number of DI unit connection)		
specifica-	Supply voltage	je	24 VDC		
tion	Supply currer	nt	2.0 A or less		
	Output type		NPN output (+COM.)	PNP (-COM.)	
Ę	Number of ou	ıtputs	32 points		
Output specification	Connection lo	oad	SMC: Solenoid valve with light/surge volt	enoid valve with light/surge voltage suppressor (24 VDC, 2.1 W or less)	
Output	Supply voltage	je	24 VDC		
ဝ မွ	Supply currer	nt	3.2 A or less		
Ø	Output when error occurs	communication	Hold/Clear (Switch setting)	Clear	
	Enclosure		IP65		
<u>a</u>	Operating ten	nperature range	5 to 45°C		
Environmental resistance	Operating hu	midity range	35 to 85%RH (With no condensation)		
onn sta	Withstand vo	Itage	1500 VAC for 1 min. between external terminals and FG		
vird	Insulation res	sistance	10 $\mathrm{M}\Omega$ or more (500 VDC) between external terminals and FG		
ᇤ ~	Vibration resi	stance	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 resista	ance	147 m/s², in each X, Y, Z direction, 3 times (De-energized)		
Standard			CE marking		
Accessory	Note 3)		Modular adopter assembly 2	2 pcs., Joint assembly 1 pc.	

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

DI Unit Specifications

Model		EX240-IE1	
	Input type	PNP/NPN sensor input (switched using a switch)	
	Number of inputs	8 points	
Ĭ	Input device supply voltage	24 VDC	
out ical	Input device supply current	Max. 60 mA/point, 500 mA/unit Note 1)	
重漢	Rated input current	Approx. 8 mA	
Input specification	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)	
	Enclosure	IP65	
E Ta	Operating temperature range	5 to 45°C	
Environmental resistance	Operating humidity range	35 to 85%RH (With no condensation)	
onn sta	Withstand voltage	1500 VAC for 1 min. between external terminals and FG	
viro esi	Insulation resistance	10 $M\Omega$ or more (500 VDC) between external terminals and FG	
ᇤ -	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/s², 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 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/).



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/).

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

Dimensions

