

#### Parts Structure



How to Order

# SI Unit

EX600-SPR1A-[



			Specifications
Symbol	Protocol	Output type	Note
PR1A		PNP (Negative common)	—
PR2A	FROFIDUS DF	NPN (Positive common)	—
DN1A	DoviceNotIM	PNP (Negative common)	—
DN2A	Devicemet	NPN (Positive common)	—
MJ1	CC Link	PNP (Negative common)	—
MJ2	CO-LINK	NPN (Positive common)	—
CF1-X60	CC-Link IE Field	PNP (Negative common)	(Made to order)
EN1		PNP (Negative common)	1 port
EN2	EtherNet/IP™	NPN (Positive common)	1 port
EN3		PNP (Negative common)	2 ports
EN4		NPN(Positive common)	2 ports
EN3-X80		PNP (Negative common)	IO-Link master (Made to order)
EC1	EthorCAT	PNP (Negative common)	—
EC2	LUIEICAT	NPN (Positive common)	—
PN1		PNP (Negative common)	_
PN2	DDOEINET	NPN (Positive common)	—
PN3	FNOFINEI	PNP (Negative common)	IO-Link master
PN4		NPN (Positive common)	IO-Link master

#### Made to order

(Refer to page 44.)					
Ethernet POWERLINK					
Modbus TCP					
CC-Link IE Field					
NPN (Positive common)					

# EX600 Series



## **Specifications**



EX600-DX

#### **Digital Input Unit**

Model			EX600-DXPB	EX600-DXNB	EX600-DXPC	EX600-DXNC	EX600-DXPD	EX600-DXND	
Input	Input type		PNP	NPN	PNP	NPN	PNP	NPN	
	Input connector		M12 (5-pin) socket*1 M8		M8 (3-pin	M8 (3-pin) socket*3		M12 (5-pin) socket*1	
	Number of inputs		8 inputs (2 inputs/Connector) 8 inputs (1 input/Connector) 16 inputs (		16 inputs (2 inp	uts/Connector)			
	Supplied voltage		24 VDC						
	Max. supplied current		0.5 A/Co 2 A/	onnector Unit	0.25 A/Connector 2 A/Unit		0.5 A/Connector 2 A/Unit		
	Protection		Short-circuit protection						
	Input current (at 24 VDC)		9 mA or less						
	ON voltage		17 V or more (At NPN input, between the pin for input terminal and supplied voltage of +24 V) (At PNP input, between the pin for input terminal and supplied voltage of 0 V)						
	OFF voltage		5 V or less (At NPN input, between the pin for input terminal and supplied voltage of +24 V) (At PNP input, between the pin for input terminal and supplied voltage of 0 V)						
	Open circuit 2 wire		_	-	0.5 mA	/Input*2	_	-	
	detection current	3 wires	_	-	0.5 mA/Co	onnector*2	_	_	
Current consumption		50 mA	or less	55 mA or less		70 mA	or less		
Enclosure		IP67 (Manifold assembly)							
Standards		CE marking (EMC directive/RoHS directive), UL (CSA)							
Weight		300	Эg	27	5 g	34	Эg		

\*1 M12 (4-pin) connector can be connected.
\*2 Function only applies to the EX600-DX□C1.
\*3 When connecting the M8 plug connector, the tightening torque must be 0.2 N·m ±10%. If tightened with an excessive tightening torque, this may cause the connector thread of the unit to break.

Model		EX600-DXPE	EX600-DXNE	EX600-DXPF	EX600-DXNF	
	Input type	PNP	NPN	PNP	NPN	
	Input connector	D-sub socket (25 pins) Lock screw: No.4-40 UNC		Spring type terminal block (32 pins)		
	Number of inputs	16 inputs		16 inputs (2 inputs x 8 blocks)		
	Supplied voltage	24 VDC				
Input	Max. supplied current	2 A/Unit		0.5 A/Block 2 A/Unit		
_	Protection	Short-circuit protection				
	Input current (at 24 VDC)	5 mA or less				
	ON voltage	17 V or more (At NPN input, between the pin for input terminal and supplied voltage of +24 V) (At PNP input, between the pin for input terminal and supplied voltage of 0 V)				
Ì	OFF voltage	5 V or less (At NPN input, between the pin for input terminal and supplied voltage of +24 V) (At PNP input, between the pin for input terminal and supplied voltage of 0 V)				
Applicable wire		_	-	0.08 to 1.5 mm <sup>2</sup> (AWG16 to 28		
Current consumption		50 mA	or less	55 mA or less		
Enclosure		IP40 (Manifold assembly)				
Standards		CE marking (EMC directive/RoHS directive), UL (CSA)				
Weight		300 g				

# EX600 Series

### Dimensions

#### **Digital Unit**







EX600-DX□E EX600-DY□E EX600-DM□E





#### EX600-DX□C□







EX600-DXD



EX600-DX□F EX600-DY□F EX600-DM□F







**SMC** 

# EX600 Series

### **Parts Description**



#### Fieldbus System For Input/Output **EX600** Series

## **LED Indicator**





**Upper Case: Original Color** 

# **EX600-DXPD Temporary Color Change**

Dear valued partners,

Due to the shortage of coloring material, SMC will be implementing a temporary color change on the EX600-DXPD Digital Input Unit.

Applicable Product: EX600-DXPD

Details: There has been a delay in supply of colorant used in the resin material of the EX600's case. To continue supply of the product, the color of the lower case will be temporarily changed to a natural tone. Please note that due to ongoing component shortages, the supply of this product is still limited. This change in color does not affect the quality, specification, and dimension of the product. Product part number and its UL/CE certification are not affected by the color change. Please refer to image below for details:



EX600-DXPD with natural color lower case

\*This is a rendered image for illustration only. Color and material of actual product may differ from this image

Lower Case: Natural Color

Period of change: Until the supply of original parts stabilizes.

Catalog: The catalog will not be modified as there is no change in the product except outer appearance. Please continue to order using the same part number. Other EX600 units are not affected by this color change at this time. Updated notice will be sent in the future when the situation changes.

Existing Order: Existing orders will be fulfilled with either color, whichever are available.

Please contact your SMC representative if you have any questions. We appreciate your understanding and support, and we look forward to continuing our partnership.

SMC Corporation of America / SMC Automation Canada

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