

**ATEX Compliant**

**For Input/Output**

# 56-EX250 Series



## How to Order

SI Unit

**56-EX250-S PR1-X42**

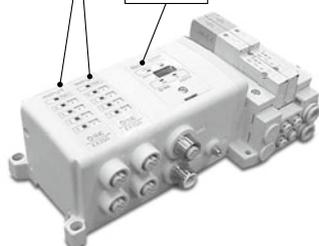
ATEX category 3

Communication protocol

<b>PR1</b>	PROFIBUS DP
<b>EN1</b>	EtherNet/IP™

Input block

SI unit



II 3G Ex ec IIC T4 Gc 5°C ≤ Ta ≤ 45°C  
 II 3D Ex tc IIIC T66°C Dc IP67

II 3G Ex ec IIC T4 Gc 5°C ≤ Ta ≤ 45°C  
 II 3D Ex tc IIIC T75°C Dc IP67

## Specifications

### SI Unit

Model		<b>56-EX250-SPR1-X42</b>
<b>Protocol</b>		PROFIBUS DP
<b>Communication speed</b>		(9.6/19.2/45.45/93.75/187.5/500 kbps), (1.5/3/6/12 Mbps)
<b>Output specifications</b>	<b>Number of outputs</b>	Max. 32 points
	<b>Output type</b>	Source/PNP (Negative common)
	<b>Connected load</b>	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)
	<b>Power supply</b>	24 VDC +10%/-5%
	<b>Current supply</b>	Max. 2.0 A
<b>Input specifications</b>	<b>Number of inputs</b>	Max. 32 points
	<b>Input block</b>	56-EX250-IE2-X43
	<b>Power supply</b>	24 VDC ±20%
	<b>Current supply</b>	Max. 1.0 A
<b>Internal current consumption (Unit)</b>		100 mA or less
<b>Operating temperature/humidity range</b>		5 to 45°C at 35% to 85%RH (No condensation)
<b>Withstand voltage</b>		500 VAC for 1 minute between external terminals and FG
<b>Insulation resistance</b>		10 MΩ or more (500 VDC) between external terminals and FG
<b>Enclosure</b>		IP67
<b>Weight</b>		250 g

Model		<b>56-EX250-SEN1-X42</b>
<b>Protocol</b>		EtherNet/IP™
<b>Communication speed</b>		10 M/100 Mbps
<b>Output specifications</b>	<b>Number of outputs</b>	Max. 32 points
	<b>Output type</b>	Source/PNP (Negative common)
	<b>Connected load</b>	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)
	<b>Power supply</b>	24 VDC +10%/-5%
	<b>Current supply</b>	Max. 2.0 A
<b>Input specifications</b>	<b>Number of inputs</b>	Max. 8 points
	<b>Input block</b>	56-EX250-IE2-X43
	<b>Power supply</b>	24 VDC ±20%
	<b>Current supply</b>	Max. 0.25 A
<b>Internal current consumption (Unit)</b>		100 mA or less
<b>Operating temperature/humidity range</b>		5 to 45°C at 35% to 85%RH (No condensation)
<b>Withstand voltage</b>		500 VAC for 1 minute between external terminals and FG
<b>Insulation resistance</b>		10 MΩ or more (500 VDC) between external terminals and FG
<b>Enclosure</b>		IP67
<b>Weight</b>		250 g

All other specifications are the same as the standard products EX250 series.  
For details, refer to the **Web Catalog**.

**How to Order****Input Block****56-EX250-IE 2 - X43**

ATEX category 3

Block type

2	M12 connector, 4 inputs
3	M8 connector, 4 inputs

**Specifications****Input Block**

 II 3G Ex ec IIC T4 Gc 5°C ≤ Ta ≤ 45°C  
II 3D Ex tc IIIC T77°C Dc IP67  
(56-EX250-IE2-X43)

 II 3G Ex ec IIC T4 Gc 5°C ≤ Ta ≤ 45°C  
II 3D Ex tc IIIC T77°C Dc IP67  
(56-EX250-IE3-X43)

Model		56-EX250-IE2-X43	56-EX250-IE3-X43
Input specifications	Input type	PNP/NPN sensor input (switched using a switch)	
	Number of inputs	4 points	
	Input device supply voltage	24 VDC	
	Input device supply current	Max. 30 mA/Point*1	
	Rated input current	Approx. 8 mA	
Environmental resistance	Enclosure	IP67	
	Operating temperature range	-10 to 50°C	
	Operating humidity range	35 to 85%RH (No condensation)	
	Withstand voltage	500 VAC for 1 minute between external terminals and FG	
	Insulation resistance	10 MΩ or more (500 VDC) between external terminals and FG	
Weight		90 g	
Accessories*2		Tie-rod 2 pcs.	

\*1 When the maximum inputs to the SI unit is reached by adding an input block, pay attention not to exceed the supply current for the SI unit input.

\*2 When the SI unit is integrated into manifold, its tie-rod is also incorporated at the time of shipment.

\* For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, <http://www.smcworld.com>

All other specifications are the same as the standard products EX250 series.  
[Click here](#) for details.

Type 1  
EX260  
EX123/124/126Type 2  
EX500Type 3  
EX600

EX245

EX250

Type 1  
EX120/121/122

EX140

EX180

Type 2  
EX510

M8/M12

ATEX