

ATEX Compliant

For Input/Output

56-EX250 Series



The 56-EX250 series is to be discontinued as of April 2022. Though they are not interchangeable, please consider ordering the 56-EX260 or 56-EX600 series as a substitute.

How to Order

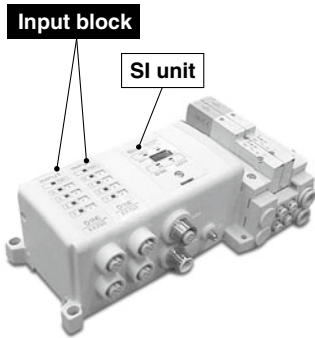
SI Unit

56-EX250-S PR1-X42

ATEX category 3

Communication protocol

PR1	PROFIBUS DP
EN1	EtherNet/IP™



Specifications

SI Unit

Model		56-EX250-SPR1-X42
Protocol		PROFIBUS DP
Communication speed		(9.6/19.2/45.45/93.75/187.5/500 kbps), (1.5/3/6/12 Mbps)
Output specifications	Number of outputs	Max. 32 points
	Output type	Source/PNP (Negative common)
	Connected load	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)
	Power supply	24 VDC +10%/-5%
	Current supply	Max. 2.0 A
Input specifications	Number of inputs	Max. 32 points
	Input block	56-EX250-IE2-X43
	Power supply	24 VDC ±20%
	Current supply	Max. 1.0 A
Internal current consumption (Unit)		100 mA or less
Operating temperature/humidity range		5 to 45°C at 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
Enclosure		IP67
Weight		250 g

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

Model		56-EX250-SEN1-X42
Protocol		EtherNet/IP™
Communication speed		10 M/100 Mbps
Output specifications	Number of outputs	Max. 32 points
	Output type	Source/PNP (Negative common)
	Connected load	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)
	Power supply	24 VDC +10%/-5%
	Current supply	Max. 2.0 A
Input specifications	Number of inputs	Max. 8 points
	Input block	56-EX250-IE2-X43
	Power supply	24 VDC ±20%
	Current supply	Max. 0.25 A
Internal current consumption (Unit)		100 mA or less
Operating temperature/humidity range		5 to 45°C at 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
Enclosure		IP67
Weight		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