


M8/M12 connector and the sensor/switch connected to them as a total system.



Between Sensor/Switch and Input Device ▶ P. 2162 to P. 2165

Connection between connectors and products

**Pressure switch**




**Auto switch**



**Pre-wired type**

**Fieldwireable connector ▶P.2163**

It has a product lineup of the fieldwireable connector that does not need any special tools.  
The lead wires can easily be made into M8/M12 connector by changing the wire length.

M8  Piercecon® connection

M12 SPEEDCON

"QUICKON-ONE" connection

**Y connector ▶P.2165**

The input block reads 2 sensor signals with one port.  
The wires of the auto switch and the pressure switch that has one output type can be decreased by unifying the signal wires using a Y connector.

M12 SPEEDCON x 2 → M12 SPEEDCON 20

M8/M12 connector (Fieldwireable/Pre-wired)

M8 x 2 → M12 SPEEDCON 21

\* 2-input type input block is the M12-type connector only.

**Cable with connector ▶P.2164**

The wiring can be changed accordingly.

M8 15, 19

M12 SPEEDCON 16, 18

M12 SPEEDCON 18

M12 SPEEDCON 18

**Input block**

**Input unit manifold**  
● Series EX500

Select the input block of the EX500 series according to the sensor output specification.

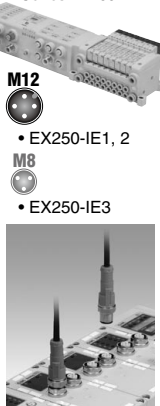

M12

- EX500-IE3, 4
- EX500-IE1, 2
- EX500-IE5, 6

**Manifold solenoid valve with input/output unit**  
● Series EX250




M12

- EX250-IE1, 2
- EX250-IE3



- EX12
- EX140
- EX180
- EX260
- EX250
- EX600
- EX500
- EX510
- PCA EX1



Product Table

Description	Application	No.	SMC part no.	Name
Cable with connector	For sensor 	18	PCA-1557769	Cable with M12 connector (4 pins/3 m)
		19	PCA-1557772	Cable with M8 connector (3 pins/3 m)
Fieldwireable connector	For sensor 	15	PCA-1557730	Fieldwireable connector (M8/3 pins/Plug/Piercecon® connection)
		16	PCA-1557743	Fieldwireable connector (M12/4 pins/Plug/QUICKON-ONE connection/SPEEDCON)
		17	PCA-1557756	
Y connector	For sensor 	20	PCA-1557785	Y connector (2 x M12 (5 pins)-M12 (5 pins)/SPEEDCON)
		21	PCA-1557798	Y connector (2 x M8 (3 pins)-M12 (4 pins)/SPEEDCON)

# Between Sensor/Switch and Input Device

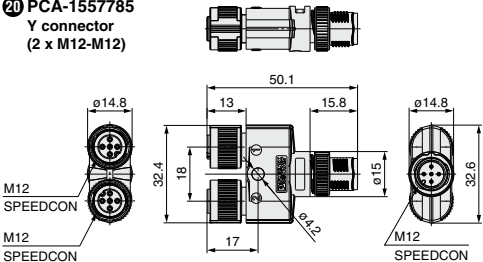
Y Connector

## Specifications

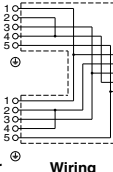
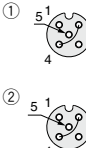
Part no.	PCA-1557785	PCA-1557798
Product image		
Number of functional poles	2 x M12: 5 poles – M12: 5 poles	2 x M8: 3 poles – M12: 4 poles
Key type	A-coded (Normal key)	
Rated current	4 A	
Rated voltage	60 V	
Contact resistance	≤ 5 mΩ	
Insulation resistance	≥ 100 MΩ	
Withstand voltage	1.0 kV	
Ambient temperature	-25 to 90°C	
Protection class	IP67 (Only with screw tightened)	
Allowable repeated insertion/withdrawal	200	
Material	Zinc die-cast	
Material of knurl	CuZn (Au plating (Ni plating))	
Contact (Surface treatment)	Thermoplastic polyurethane (TPU)	
Weight	Approx. 29 g	Approx. 13 g

## Dimensions

20 PCA-1557785  
Y connector  
(2 x M12-M12)



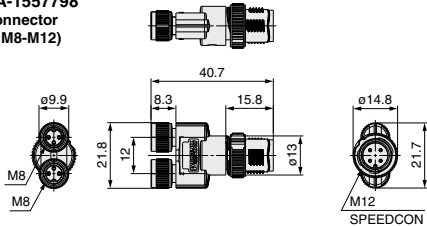
Socket connector  
pin assignment  
A-coded (Normal key)



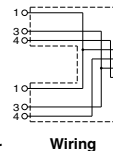
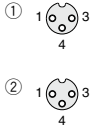
Plug connector  
pin assignment  
A-coded (Normal key)



21 PCA-1557798  
Y connector  
(2 x M8-M12)



Socket connector  
pin assignment  
A-coded (Normal key)



Plug connector  
pin assignment  
A-coded (Normal key)



EX10
EX140
EX180
EX260
EX250
EX600
EX500
EX510
PCA EX1