Orsense SC6 Series Signal Conditioners

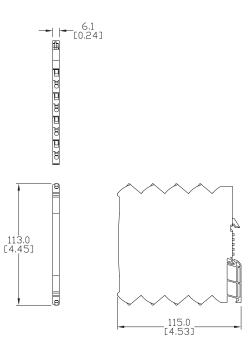
ProSense Power Connector Unit

The <u>SC6-PCU1</u> power connector unit allows easy connection of a 24 VDC / 2.5 A source to the in-rail-bus to provide power to multiple SC6 signal conditioners mounted on the rail.



Part No.	Descripti	on	Weight (lb)	Price					
<u>SC6-PCU1</u>	ProSense power co unit, for use with SC signal conditioners.		0.19	\$100.	.00				
Power Connection Module - Technical Specifications									
Part No.		<u>SC6-PCU1</u>							
Supply voltage		16.8-31.2 VDC							
Internal power dissipation			0.25 W max.						
Required external fuse			2.5 A						

Dimensions mm [inches]



See our website www.AutomationDirect.com for complete Engineering drawings.

Of Sense SC6 Series Signal Conditioners Accessories

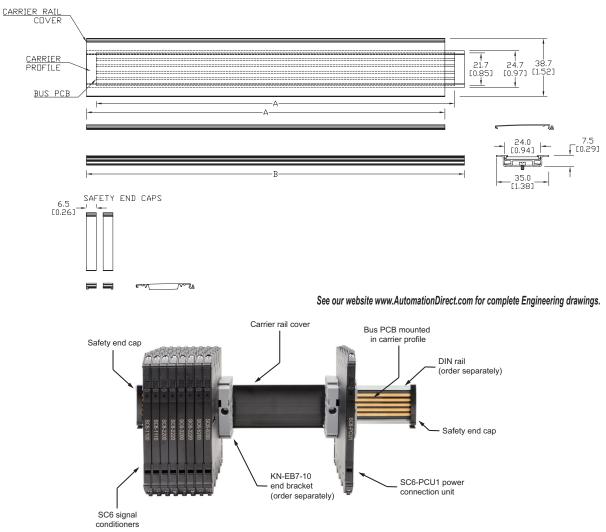
In-Rail-Bus

Part No.	Description	" A "	"В"	Weight (lb)	Price
<u>0068060</u>	In-rail-bus, 250mm length. For use with SC6 series signal conditioners and DN-R35S1 series DIN rail.	239mm	252mm	0.2	\$43.50
<u>0068062</u>	In-rail-bus, 750mm length. For use with SC6 series signal conditioners and DN-R35S1 series DIN rail.	739mm	752mm	0.5	\$81.00

Note: Order DIN rail and signal conditioners separately

Part No.	In-Rail-Bus-Set / 250mm <u>0068060</u>	In-Rail-Bus-Set / 750mm <u>0068062</u>	Materials	
Each Set Includes	BUS-PCB 250mm	BUS-PCB 750mm	Polyamide with copper traces	
	Carrier profile 250mm	Carrier profile 750mm		
	Carrier rail cover 250mm	Carrier rail cover 750mm	Polyamide	
	Safety cap right	Safety cap right	Polycarbonate	
	Safety cap left	Safety cap left	Polycarbonate	

Dimensions mm [inches]



Or Sense SC6 Series Signal Conditioners

SC6 Series Signal Conditioners

The ProSense SC6 Series of signal conditioners are housed in a narrow 6mm width package that allows for high density mounting on a 35mm DIN rail, saving panel space. Various models are available for conversion of standard DC voltage and current signals, bipolar signals, thermocouples and RTDs with isolation that eliminates ground loop problems. The SC6 Series includes single channel, two channel and signal splitter models. Depending on the SC6 Series model, power options include an in-rail power bus, loop powered output, as well as models that are powered directly from the input signal. Application specific models that have fixed configuration require no set up; DIP switch configured models provide flexibility to meet a variety of applications. All models are UL Listed as well as

FM approved for use in Class 1 Division 2 hazardous locations.

Features

- Conversion of standard DC voltage and current signals, bipolar signals, thermocouples and RTDs
- · Single channel, two channel and signal splitter models
- Isolation eliminates ground loop problems
- Narrow 6mm width allows for high density mounting on a DIN rail saving panel space
- Various power options, including an in-rail power bus for certain models
- Fixed configuration or DIP switch selectable configuration for simple setup
- LED operation status on some models
- Excellent accuracy and fast response time
- Wide operating temperature range
- Suitable for high vibration environments
- UL Listed; FM approved for use in Class 1 Division 2 hazardous locations





SC6 Series Signal Conditioner Selection Guide - Analog Signal Input Modules													
Part Number		SC6-1100	<u>SC6-1110</u>	<u>SC6-2200</u>	SC6-2220	<u>SC6-3200</u>	<u>SC6-3220</u>	<u>SC6-1101</u>	<u>SC6-1111</u>	<u>SC6-1102</u>	SC6-1112	<u>SC6-4102</u>	<u>SC6-4112</u>
Price		\$177.00	\$216.00	\$199.00	\$238.00	\$200.00	\$247.00	\$126.00	\$181.00	\$147.00	\$217.00	\$148.00	\$217.00
Weight (lb)		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Input	Current Input	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	-	-
	Voltage Input	-	-	Х	Х	Х	Х	-	-	_	-	-	-
	2-Wire Transmitter Input (Loop power provided)	-	-	Х	Х	_	-	_	-	-	-	Х	х
	Bipolar Voltage/Current Input	-	-	_	_	Х	Х	_	-	_	-	_	-
	Current Output	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Output	Voltage Output	-	-	Х	Х	Х	Х	-	-	_	-	-	-
	Bipolar Current Output	-	-	-	_	_	Х	_	-	-	-	-	-
	2-wire, Loop Powered by Input Signal	-	-	_	_	_	_	Х	Х	_	-	-	-
Power	2-wire, Loop Powered (Output Side)	-	-	_	_	_	_	_	-	Х	Х	Х	х
	4-wire, External Power (In-rail Power Bus or Terminal)	x	х	Х	х	х	Х	_	-	-	_	_	-
Application	One Channel	Х	-	Х	_	Х	-	Х	-	Х	-	Х	-
	Two Channels	-	-	-	_	-	-	-	Х	-	Х	_	Х
	One Input to Two Output Signal Splitter	-	х	_	Х	_	Х	_	_	_	-	_	-
Isolation	Input / Output/ Power Isolated	х	х	Х	Х	х	Х	Х	Х	Х	х	х	Х

Ofgense SC6 Series Signal Conditioners

SC6 Series Sig	nal Conditioner Selectior	n Guide - T	emperatu	re Input M	odules
Part Number		<u>SC6-5200</u>	SC6-6200	<u>SC6-7102</u>	<u>SC6-6102</u>
Price		\$181.00	\$169.00	\$159.00	\$108.00
Weight (lb)		0.27	0.27	0.27	0.27
lanut	Type J/K Thermocouple Input	Х	-	Х	-
Input	Pt100 RTD Input	-	Х	Х	Х
Output	Current Output	Х	Х	Х	Х
Output	Voltage Output	Х	Х	-	-
Power	2-wire, Loop Powered (Output Side)	-	_	Х	Х
	4-wire, External Power (In-Rail Power Bus or Terminal)	Х	х	-	-
Application	One Channel	Х	Х	Х	Х
	Two Channels	-	-	-	-
	One Input to Two Output Signal Splitter	-	-	-	-
Isolation	Input / Output/ Power Isolated	Х	Х	Х	-

Unit Features SC6-1100



• 0-23 mA input

- 0-23 mA output (1:1 signal conversion)
- One channel
- Isolation ٠
- 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- Fixed configuration requires no setup
- LED indication

SC6-1110



SC6-2200



- 0-23 mA input
- 0-23 mA output (1:1 signal conversion)
- Signal splitter one input to two outputs .
 - Isolation

.

- 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- Fixed configuration requires no setup
- LED indication
- 0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V,
- 2-10V, 2-wire transmitter input • 0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V, 2-10V output
- One channel
- Isolation •
- 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- · DIP switch configured
- · LED indication

SC6-2220



0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V, 2-10V, 2-wire transmitter input

- 0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V, 2-10V outputs
- Signal splitter one input to two outputs Isolation
- 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- DIP switch configured
- LED indication



Bipolar +/-10 mA, +/-20 mA, +/-5V, +/-10V inputs

- 0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V, 2-10V output
- One channel
- Isolation
- 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- DIP switch configured
- LED indication

SC6-3220



Bipolar +/-10 mA, +/-20 mA, +/-5V, +/-10V inputs

- 0-20 mA, 4-20 mA, +/-10 mA, +/-20 mA, 0-5V, 1-5V, 0-10V, 2-10V outputs
- Signal splitter one input to two outputs (or one bipolar output)
- Isolation
 - 4-wire, 24VDC externally powered (terminals or in-rail power bus)
- DIP switch configured
- LED indication
 - **Signal Conditioners**

tPSC-28





Sense SC6 Series Signal Conditioners

Unit Features Continued

SC6-1101



• 0-23 mA input

- 0-23 mA output (1:1 signal conversion)
- One channel

0-23 mA input

Two channels

• 3.5 - 23 mA input

• One channel Isolation

Isolation

- . Isolation
- Powered by input current signal

· Powered by input current signal Fixed configuration - requires no setup

• Fixed configuration - requires no setup

0-23 mA output (1:1 signal conversion)

SC6-1111



SC6-1102



SC6-1112

- 3.5 23 mA input
 - 3.5 23 mA output (1:1 signal conversion)

· 2-wire, 6-35 VDC loop powered output

• Fixed configuration - requires no setup

- Two channels
- Isolation
- 2-wire, 6-35 VDC loop powered output • Fixed configuration - requires no setup

SC6-4102

- · 2-wire transmitter (3.5 23 mA) input
 - 3.5 23 mA output (1:1 signal conversion)
 - One channel
 - Isolation
 - · 2-wire, 6-35 VDC loop powered output
 - Fixed configuration requires no setup



- 2-wire transmitter (3.5 23 mA) input
- 3.5 23 mA outputs (1:1 signal conversion)
- Two channels

2-10V output

One channel

LED indication

• RTD Pt100 input

2-10V output One channel Isolation

Isolation

- Isolation
- 2-wire, 6-35 VDC loop powered output
- · Fixed configuration requires no setup

• Thermocouple Type J, Type K input

• 4-wire, 24VDC externally powered

(terminals or in-rail power bus)

• DIP switch configured

0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V,



SC6-6200



SC6-7102



SC6-6102



Thermocouple Type J, Type K, RTD Pt100

0-20 mA, 4-20 mA, 0-5V, 1-5V, 0-10V,

• 4-wire, 24VDC externally powered (terminals or in-rail power bus)

- input • 4-20 mA, 20-4 mA output
- One channel

• DIP switch configured

LED indication

- Isolation
- 2-wire, 5.5-35 VDC loop powered output
- DIP switch configured
- RTD Pt100 input
- 4-20 mA, 20-4 mA output
- One channel
- Non-isolated
- 2-wire, 3.3-35 VDC loop powered output
- DIP switch configured





• 3.5 - 23 mA output (1:1 signal conversion)