

Smart Dupline® Analogue Input Module Type SHPINA224



- 2 x 0-20mA/4-20 mA inputs
- 24 VDC
- Input type selectable from SBWEB/SHWEB configuration tools
- Small dimension housing for decentralized installation inside wall-box

Product Description

SHPINA224 is a DC-powered input module with 2 x 0-20mA/4-20mA inputs. The compact size of the module makes it possible to fit it into a wall-box or small junction box, thereby enabling a decentralized installation concept where the Dupline® bus is multidropped from sensor to sensor. This simplifies the wiring to the controller

compared to traditional star wiring connections, reduces the number of DDC's and sub-panels required and provides a higher flexibility for last minute changes and enhancements. The selection of input type (0-20 mA or 4-20 mA) to be used is done with the SBWEB/SHWEB configuration tools.

Type Selection

Input module	Type
2	0-20mA/4-20 mA

Ordering key

SH P IN A 2 24

Smart Dupline® _____
Decentralized _____
Input module _____
Current input _____
Number of inputs _____
Power supply _____

Supply Specifications

Power Supply	24 VDC ± 20%
Operational voltage range	1 V
Max ripple	Yes
Reverse polarity protection	Oversupply cat. II (IEC 60664-1, par. 4.3.3.2)
Overvoltage category	500 V (1.2/50μs) (IEC 60664-1, tab. F.1)
Rated impulse voltage	15 mA (only internal)
Typ. current consumption	100 mA (not self-limited)
Max. output current	≤ 2 s
Power on delay	≤ 1 s
Power off delay	

Specifications for Analog inputs

0-20 mA / 4-20 mA	± 0,5% of reading +0,02 mA
Inaccuracy	< 5 m
Cable length	50 mA
Max continuous input current	150 mA for 1s
Max pulse input current	

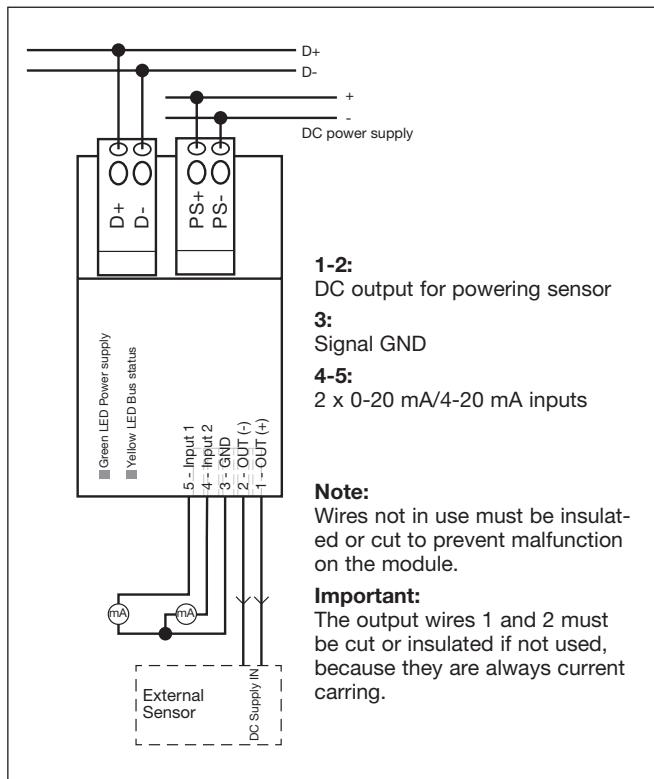
Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	1.5 mA

General Specifications

Environment		EMC
Pollution degree	2(IEC 60664-1, par. 4.6.2)	EN61000-6-2
Operating temperature	0 to +50°C (-4 to +122°F)	EN61000-4-2
Storage temperature	-50 to +85°C (-58 to +185°F)	EN61000-4-3
Humidity (non-condensing)	20 - 90%	EN61000-4-4
Housing		EN61000-4-5
Material	Macromel	EN61000-4-6
Colour	Ambra	EN61000-4-8
Dimensions (h x w x d)	50 x 30 x 18 mm	EN61000-4-11
Weight	50 g	
Protection degree	IP20	CISPR 22 (EN55022), cl.B
Terminal block		CISPR 16-2-1 (EN55016-2-1)
Power supply input	4 x spring terminal	CISPR 16-2-3 (EN55016-2-3)
Dupline® bus	4 x spring terminal	
Cross-sectional area	Terminal: 1.5 mm ²	
Cable x 5		Approvals
1 + 2	Power for external sensors	CE
3	GND	cULus according to UL60950
4 + 5	mA input	
Cross-sectional area	0.14 mm ²	
Wire length	0.25 m	

Wiring Diagram



Dimensions

