

ConditionSensor Interface CSI-B-1

Description

The ConditionSensor Interface CSI-B-1 is a segment of the HYDAC Condition Monitoring concept, which connects the sensor level with the interpretation level. HYDAC sensors supply an HSI signal which is transmitted by the CSI-B-1 in individual analogue measurement signals. The output can thereby proceed per channel as a current or voltage signal according to choice.

In transparent mode, the measured values can be read with the aid of the PC software FluMoS.

Special features

- 1 input channel for HYDAC sensors
- Direct connection of the sensor via screw terminals
- Automatic sensor detection
- Very compact design
- Suitable for top-hat rail installation
- Protection class IP 40

Technical details

Input data	
HSI interface	HYDAC sensor interface for digital coupling of sensors – male connector X3
Output data	
Analogue output	- 4x analogue output 4 to 20 mA or 4x analogue output 2 to 10 V – male X2
Switch output	- 4x relay – male X4
Ambient conditions	
Operating temperature range	-25 to +85°C
Storage temperature range	-30 to +85°C
Relative humidity	0 to 70%, non-condensing
CE mark	EN 61000-6-2, EN 61000-6-4
IP rating as per DIN 40050	IP 40
Other data	
Supply voltage of the module	24 V DC ± 10% (male X3)
Current consumption (module)	25 mA (in addition to the connected sensor)
Sensor supply	24 V DC (through the CSI)
Electrical connection	
Cross-section of connection	max. 1.5 mm ²
X1: Unused	Plug-in terminal block, 8-pin RM 3.5
X2: Analogue output, 4 channels	Plug-in terminal block, 8-pin RM 3.5
X3: Voltage supply + HSI	Plug-in terminal block, 8-pin RM 3.5
X4: Switching output	Plug-in terminal block, 8-pin RM 3.5
USB	B
Pass-through mode selection	can be programmed via HyperTerminal
Display of the selected analogue output	Green LED: voltage 2 to 10 V Red LED: current 4 to 20 mA
Dimensions and weight	
Dimensions	142 x 105 x 35 mm
Housing	Mounting of the housing on a carrier rail (35 mm) in accordance with DIN EN 60715 TH 35 (previously DIN EN 50022)
Weight	≈ 350 g

Model code

CSI - B - 1 - 000

Product series

CSI = ConditionSensor Interface

Housing

B = Top hat rails housing

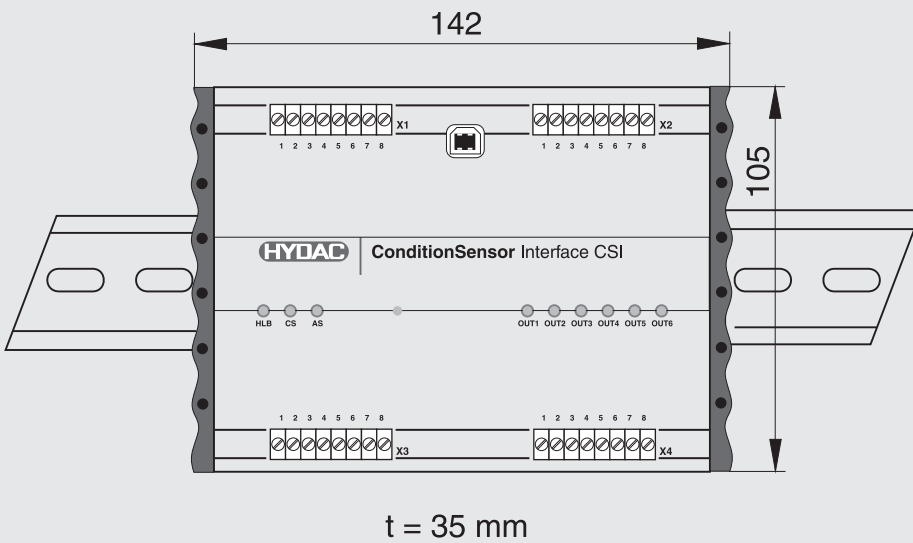
Output type

1 = HSI → analogue output

Customer modification

000 = Standard

Dimensions



Terminal assignment

Terminal block –X1

Pin	Signal	Description
1	-	Not used
2	-	Not used
3	-	Not used
4	-	Not used
5	-	Not used
6	-	Not used
7	-	Not used
8	-	Not used

Terminal block –X2

Pin	Signal	Description
1	mA / V	Analogue output 1
2	mA / V	Analogue output 2
3	mA / V	Analogue output 3
4	mA / V	Analogue output 4
5	GND	Earth
6	-	Not used
7	-	Not used
8	-	Not used

Terminal block –X3

Pin	Signal	Description
1	+ 24 V	Module
2	0 V	Module
3	+ 24 V	Sensor
4	0 V	Sensor
5	HSI	Interface
6	-	Not used
7	-	Not used
8	-	Not used

Terminal block –X4

Pin	Signal	Description
1	R1 +	Relay 1
2	R1 -	Relay 1
3	R2 +	Relay 2
4	R2 -	Relay 2
5	R3 +	Relay 3
6	R3 -	Relay 3
7	R4 +	Relay 4
8	R4 -	Relay 4

Note

The information in this general brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

All technical details are subject to change.

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