

Condition Sensor Interface CSI-B-1

Description

The Condition Sensor Interface CSI-B-1 is a further element in the HYDAC Condition Monitoring concept, connecting the sensor level with the interpretation level. HYDAC sensors supply an HSI-Signal, which is converted into individual analogue signals by the CSI-B-1. The type of output can be selected for each channel as a current or voltage signal.

In the 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 recognition
- Very compact design
- Suitable for mounting on DIN rails
- Protection class IP 40

Technical specifications

Input data	
HSI interface	HYDAC Sensor Interface for digital coupling of sensors to male X3
Output data	
Analogue output	- 4x analogue output 4 ... 20 mA or 4x analogue output 2 ... 10 V - male X2
Switching output	- 4x relays – male X4
Ambient conditions	
Operating temperature range	-25 ... +85 °C
Storage temperature range	-30 ... +85 °C
Relative humidity	0 ... 70%, non-condensing
CE mark	EN 61000-6-2, EN 61000-6-4
Protection class to 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. 1.5mm ²
X1 : not used	Male terminal block, 8 pole RM 3.5
X2 : Analogue output, 4 channels	Male terminal block, 8 pole RM 3.5
X3 : Voltage supply + HSI	Male terminal block, 8 pole RM 3.5
X4 : Switching output	Male terminal block, 8 pole RM 3.5
USB	B
Optional pass-through mode	Can be programmed via HyperTerminal
Indication of the selected analogue output	Green LED: voltage 2 ... 10 V Red LED: current 4 ... 20 mA
Dimensions and Weight:	
Housing dimensions	142 x 105 x 35 mm
Housing	Housing to be mounted on rails (35mm) to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight	≈ 350 g

Model code

CSI - B - 1 - 000

Product series

CSI = ConditionSensor Interface

Housing

B = DIN rail housing

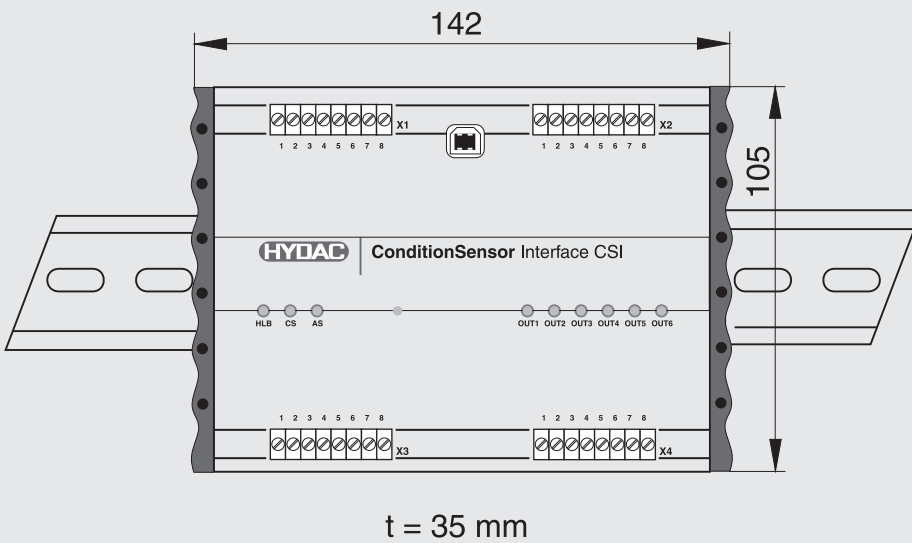
Type of output

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	Ground
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 brochure relates to the operating conditions and applications described.

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

Subject to technical modifications.

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