



ConditionSensor Interface CSI-B-7

DESCRIPTION

The ConditionSensor interface module is used to transmit digital sensor signals (Hydac Sensor Interface HSI) into a network protocol (HSI TCP/IP or Modbus TCP).

On the CSI-B-7 you can connect up to two sensors via the screw terminals and supply them with power. Parameterise the desired IP address and subnet mask once via the 5 pin male connection M12x1. The network connection is made using a commercially available network cable (patch) with an RJ45 connector. The interface module has been developed for top hat rail installation in control cabinets.

Special Features

- 2 input channels for HYDAC sensors
- Modbus TCP
- Direct connection of the sensors via screw terminals
- Network connection via RJ45 socket
- Very compact design
- Suitable for mounting on top hat rails
- Protection class IP 40

Technical specifications

Input data	
HSI interface	HYDAC Sensor Interface for digital coupling of sensors - screw terminals
Output data	
Ethernet 10 Base-T / 100 Base-TX	Protocol: – HSI TCP/IP (Port 49322) – Modbus TCP (Port 502)
Ambient conditions	
Operating temperature range	-25 to +85 °C
Storage temperature range	-30 to +85 °C
Relative humidity	0 to 70 %, non-condensing
CE - marked	EN 61000-6-2, EN 61000-6-4
Protection class to DIN 40050	IP 40
Other data	
Supply voltage	12 to 24 V DC ± 10%
Current requirement (module)	50 mA (plus the current consumption of the connected sensors)
Sensor supply	12 to 24 V DC (looped through)
Electrical connection	- Terminal block, 8 pin, RM 3.5 fitting Gross section max. 1.5 mm ² - Ethernet RJ45
Parameterisation	via male connection M12x1, 5 pin, according to DIN VDE 0627
Dimensions	106 x 72 x 47 mm
Housing	Housing to be mounted on rails (35mm) according to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight:	≈ 350 g

MODEL CODE

CSI - B - 7 - 000

Product series

CSI = ConditionSensor Interface

Housing

B = Top hat rail housing

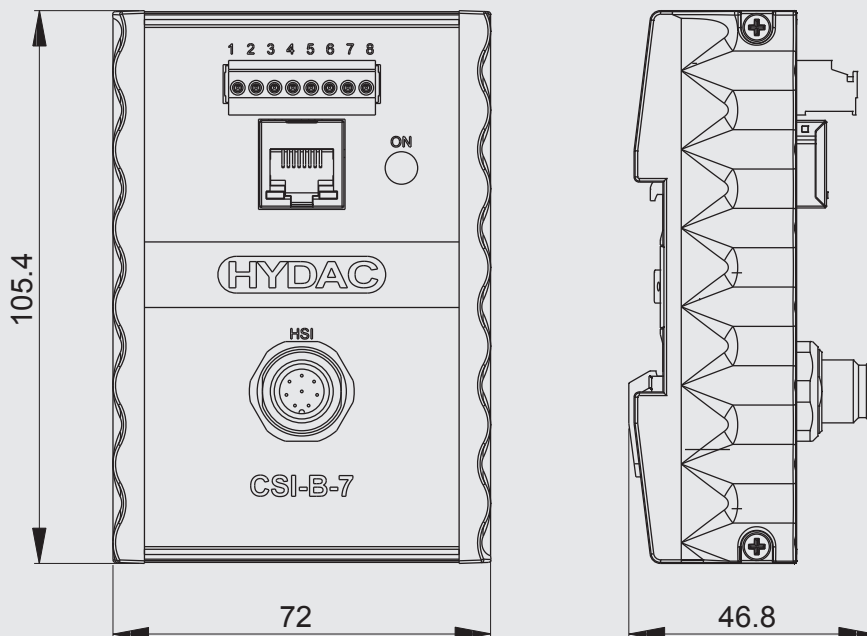
Output type

7 = HSI → Ethernet / Modbus TCP

Modification

000 = Standard

Dimensions



All dimensions in mm.

Terminal assignment

Pin	Signal	Description	
1	12 ... 24 V DC	CSI-B-7	+ Supply voltage
2	GND	CSI-B-7	GND supply voltage
3	S1 +	Sensor 1	+ Supply voltage
4	S1 GND	Sensor 1	GND supply voltage
5	S1 HSI	Sensor 1	HSI signal
6	S2 +	Sensor 2	+ Supply voltage
7	S2 GND	Sensor 2	GND supply voltage
8	S2 HSI	Sensor 2	HSI signal

Note

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

For applications and operating conditions not described, please contact the proper HYDAC department.

Subject to technical modifications.

HYDAC FILTER SYSTEMS GMBH

Industriegebiet

D-66280 Sulzbach / Saar

Tel.: +49 (0) 6897/509-01

Fax: +49 (0) 6897/509-9046

Internet: www.hydac.com

E-Mail: filtersystems@hydac.com