



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 ... +85 °C |
| Storage temperature range | -30 ... +85 °C |
| Relative humidity | 0 ... 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 ... 24 V DC ± 10% |
| Current requirement (module) | 50 mA (plus the current consumption of the connected sensors) |
| Sensor supply | 12 ... 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

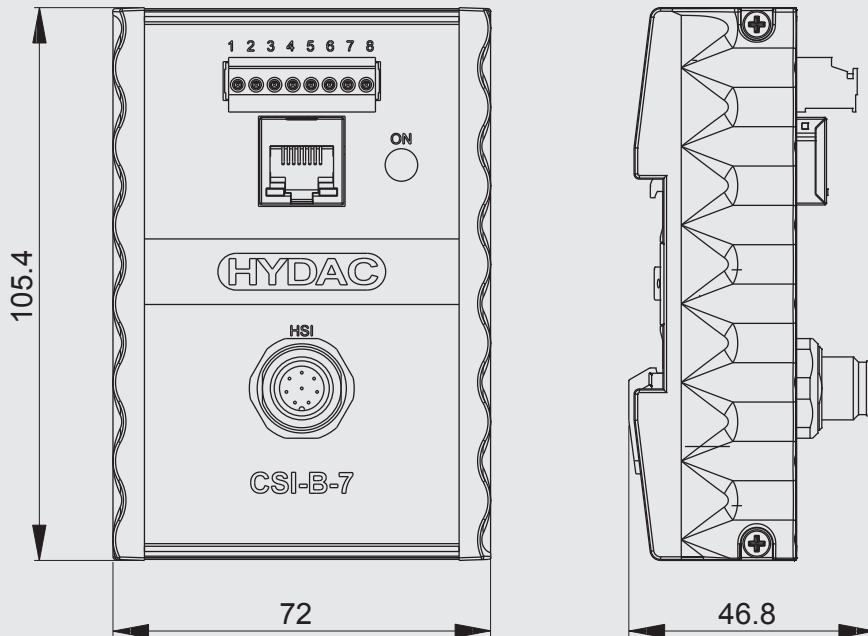
Output type

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