

HB Products - dedicated to optimal solutions for level measurement and control of oil and refrigerants.

HB Products is a development-oriented company, which specializes in the development and production of sensors for industrial refrigeration systems. Apart from expertise within oil and refrigerant control, we have great know-how in the design and optimization of industrial refrigeration systems. This knowledge enables us to develop and produce the best sensors!

Since its start more than 20 years ago, HB Products has attained a strong global position. This is the result of our ability to think in terms of new technological solutions, create trustworthy products. and provide a high level of service.



Quick guide

HBAC switch For detection of leakage in CO2/NH3 cascade systems



Functionality:

The HBAC switch is made to detect leakage in CO2/NH3 cascade systems. If HBAC is to be used in a different way, prior approval must be obtained from HB Products.

Caution: Only qualified personnel should work with the product. The technician must be aware of the consequences of an improperly installed sensor, and must be committed to adhering to the applicable local legislation.

For further info and guidance please visit our homepage www.hbproducts.dk







Mechanical specifications:

Ambient temperature: -30...+50°C Liquid temperature: -60...+80°C Max. pressure: 100 bar Material, mechanical: AISI304/PTFE Thread connection: ¾" NPT

Installation guide:

Place the sensor in a ³/⁴ threaded sleeve. It must be placed horizontal. Leave sufficient space around the sensor rod. The sensor must be installed in a pot or where leakage can appear.

Caution! In case of welding work on the unit, please make sure that proper earthing is carried out to avoid damaging the electronics.

Electrical installation



2 = White -3 = Blue, DO, Alarm, PNP, 1A 4 = Black, AO, Control output, 4-20mA

Supply 24V AC/DC 1 = Brown +

5 = Gray, DI, Run in signal (5 to 24 VDC)

Electrical specifications:

Supply: 24 V AC/DC ±10% Current draw: 50 mA Plug: DIN 0627 – 5 pins Enclosure: IP65 Material, electronics: PA46-GF30

Output types: Transistor output: PNP/NPN Output function: NO or NC

Note! All terminals are protected against improper termination with a supply voltage up to 40 V. If the supply voltage is greater than 40 V the electronics will be damaged.

Indication of leakage



Function and outputs: 1 x red LED indicates alarm (ALARM) Yellow LED (not in use) Green LED indicates 24 V DC supply (POWER)

LED activation: Function of charge output: NC: There should be no signal when leakage appears. NO: There should be a signal when leakage appears.