

The input module DF20-N is equipped with 8 channels acc. to NAMUR, which are grouped together in two blocks. One frequency input per block and three control inputs/outputs are available.

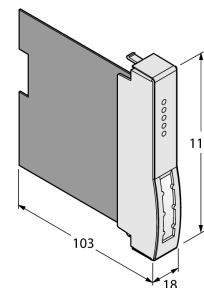
The module can be used as a counter or frequency input module: It is thus suited for pulse counting of binary input signals or frequency measurements of binary pulse sequences of NAMUR sensors.

The counting direction can either be set externally via a control input or internally by setting a parameter. The maximum frequency of one block is 4 kHz; with 2 blocks the frequency is reduced to 2 kHz.

Input and output mode are adjusted via the PROFIBUS-DP master. Each channel is equipped with parametrizable wire-break/short-circuit monitoring.

■ **Frequency module for the connection of NAMUR sensors**

Dimensions



Type code	DF20-N
Ident no.	6884212
Supply voltage	via the backplanes, central power supply
Power consumption	≤ 1 W
Galvanic separation	to int. bus and supply circuit
Number of channels	2-channel
Input circuits	acc. to EN 60947-5-6 (NAMUR)
No-load voltage	8 VDC
Short-circuit current	4 mA
Switching threshold on/off	type 1.8 / type 1.4 mA
Switching frequency	≤ 4000 Hz
Short circuit	< 367 Ω
Wire-break	<0.2 mA
Measuring accuracy	≤ 1 % of full scale
Indication	
Operational readiness	1 x green / red
State/ Fault	8 x yellow / red
Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-20...+60 °C
Relative humidity	≤ 95% at 55 °C acc. to EN 60068-2
Vibration test	acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
EMC	acc. to EN 61326-1 (2006) acc. to Namur NE21 (2007)
MTTF	101 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18x 118x 103 mm
Weight	80 g