1 Terminals power supply voltage. 99spne..
2 RJ-45 device- connectors series 9../8..
3 Status LED bus adapter
4 RJ-45 connector PROFINET
5 Output voltage power supply module*
6 Power LED*
7 Terminals power supply voltage 99e500n*
8 Configuration interface (service) for PC connection
9 DCP- signal- service LED (Visible through the air vents)

A Profinet Adapter (99spne..)
B Power supply module* (99e500n) *With supply 100-250V AC only
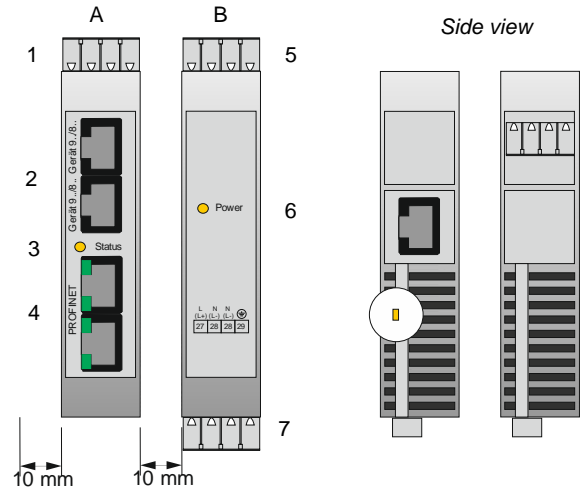
Note: Provide 10mm space on both sides for ventilation.

General description:

The PROFINET interface is able to replace separate wiring of analogue (external setpoints, signal outputs) or digital signals (via binary inputs and status bits respectively via relay outputs and control bits).

The connection of devices series 9../8.. to the PROFINET-IO is realised by the intelligent bus adapter 99spne... The bus adapter is configured to the addresses of 1 or 2 connected devices series 9.. or 8.. and the requested transmission data each e.g. actual value, setpoint and status word. The communication between the adapter and the service interface of the device / devices takes place by patch cables(1,5m), which are delivered with each adapter.

The PROFINET -connection is carried out as a standard-ethernet-interface (10 Base-T / 100 Base-TX; Baudrate: 10/100 MBit/s) in accordance with IEEE 802.3 and is inserted directly into the bus line at the in- and output side by the appropriate RJ-45 connectors. A DCP signal service LED is available for visual localization of the device in the field.

Data modules for floating point operation are available for the data transmission, GSDML- files in the XML-format are enclosed. Error bits make it possible to monitor the function of the adapter. Additionally, connection errors are registered and available for diagnosis by the use of fault memory. GSDML files in XML format are included, alternatively the files can be downloaded from the KFM website.

Depending on version PLC data blocks are available for the data transmission. A repository (file extension .zap15_1) is included, alternatively the file can be downloaded from the KFM website.

Types:

99spne408   Adapter for 12 PROFINET values, pow. supply 24V DC, two device connectors for series 9../8.. (4 binary-, 8 analogue values, also status- / control word)

99spne820   Adapter for 28 PROFINET values, pow. supply 24V DC, two device connectors for series 9../8.. (8 binary-, 20 analogue values, also status- / control word)

Power supply module (for supply of type 99spne.. optionally):

99e500n   Power supply module 100-250V AC

Connection diagram:
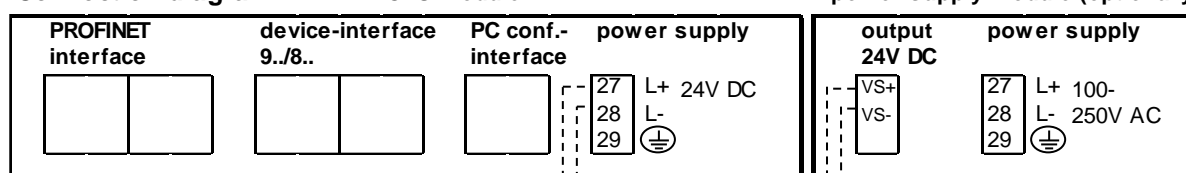
External wiring provided by the customer.

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Adjustments:

The PROFINET- adapter is delivered preadjusted:

IP-address: 192.168.1.254 / device name: kfm99spne / MAC- address
Normally, the IP-address is managed dynamically by the Profinet-master.
In case of permanent changes to the IP-address or the device name, the preadjustments can easily be
modified with the supplied pc- configuration program EthDevCon.msi (Ethernet Device
Configuration Tool) using the PROFINET- interface.
The MAC- address is readable on the type plate.

Transmission data: In accordance to the example from page 4 or custom specific.
In case of changes to the transmission data (for example actual-, setpoint value and status word) *the*
adjustments can easily be modified with a configuration program in the PKS -PC-software (from
version 2.02.78) using the configuration interface (service).

Commissioning:
The enclosed patch cable (1,5m) has to be connected with the service- interface of the device series 9../8..
and the RJ-45 connector "9../8.." of the bus adapter. The profinet connection takes place in- and optional
output sided arbitrary at the ethernet- connectors.

The LEDs signalise the operating status:

LED	display	meaning
PROFINET-adapter, LED "status"	yellow permanent	*Normal operation*
	yellow flashing	*Communication error* between device 9../8.. and bus adapter
	red flashing	*Communication error* between bus adapter and profinet
	red yellow flashing	*Communication error* between device 9../8.. and bus adapter as well as between bus adapter and profinet
	red permanent	*Fault* when loading the parameter, please send the device for repair
PROFINET-adapter, LED "DCP-service"	off	*Normal operation*
(Visible behind the air vents)	yellow flashing (1Hz, 3 seconds)	*DCP signal service is triggered via the bus.*
Power supply module, power LED	yellow permanent	*Power supply connected to the power supply module*

Technical data:

Housing: for fastening to 35mm mounting rail
Installation orientation: optional
Type of protection: IP20 according to EN 60529
Perm. ambient temperature: 0..60°C
Nominal temperature: 20°C
Power supply:, 24V DC about 12 VA,
alternative 100-250V AC, about 12 VA

Installation dimensions:
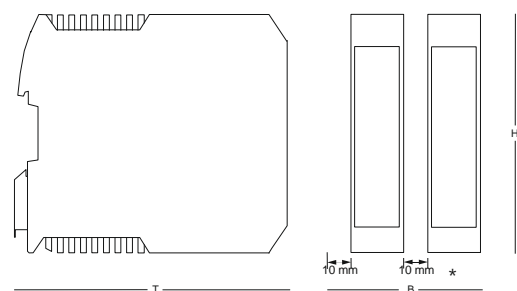
H= 99mm,* Version without or with power module:
B= 22,5mm(+ 10mm ventilation on both sides) or
45mm(+ 10mm ventilation on both sides),T=116mm

Wiring example :

Note: Use shielded and twisted cables of category 5 (CAT 5e STP) or better only!

PROFINET IO

**PROFINET- IO
controller /
master**

99spn..20150319

99spne..   device 9../8..   99spne..   device 9../8..