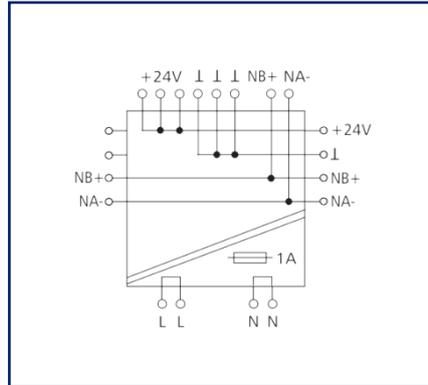# Data sheet
Power supply NG4-F 24 V DC
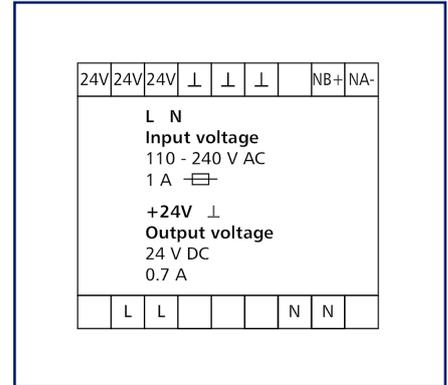
Illustrations

Principle diagram	Wiring diagram

See enlarged drawings at the end of document

Product specification

The NG4-F power supply supplies a regulated direct voltage of 24 V DC / 16 W for supplying power to the respective devices of the product family of I/O components. The secondary voltage can only be tapped at the right side of the device front at a pluggable terminal block and at the spring clamp terminal blocks. The bus communication can be tapped on both sides of the device front. A parallel operation of various power supply units is not allowed. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with spring clamp terminal blocks (push-in)

Data sheet
Power supply NG4-F 24 V DC

Technical Data

General information

	for I/O components of the series LON (LF-xxx), BACnet (BMT-xxx), Modbus (MR-xxx)

Inputs

Voltage range	110 - 240 V AC, 47 - 63 Hz
Contact fuse	internal T 1,0 AL/250 V, soldered fuse

Outputs

Output voltage	24 V DC (SELV)
Output current (max.)	700 mA
Output power	16 W
Load and control accuracy	+/- 3 %, Tu = 20° C

Protection and monitoring

Permanently short-circuit proof	yes
Open-circuit proof	yes
Mains failure backup	< 40 ms at 230 V AC and full load
Electric strength	4000 V AC input/output

Device safety/EMC

Output	safety extra-low voltage (SELV) according to EN 62368-1
Protection class	2

Housing

Dimensions	
Dimension (W x H x D)	50 mm x 69.3 mm x 60 mm
Dimension (W x H x D)	1.969 in. x 2.728 in. x 2.362 in.
Weight	108 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Spring clamp terminal blocks
Indicator	green LED

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Power supply NG4-F 24 V DC

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Technical Data

Terminal blocks

Supply and bus

Terminal block	4-pole
Solid wire (AWG)	max. 1.5 mm² / max. 16 AWG
Stranded wire (AWG)	max. 1 mm² / max. 18 AWG
Wire diameter	min. 0.3 mm max. 1.4 mm

Module connection

Wire cross section solid	0.2 mm² - 2.5 mm² / AWG 24-14
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 24-12
Wire cross section with wire ferrule	0.25 mm² - 1.5 mm² / AWG 24-16
Stripping length (min.)	8 mm

Material

Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Climatic Data

Operating

Temperature - Operating °C	-10 °C - 55 °C
Temperature - Operating °F	14 °F - 131 °F

Storage

Temperature - Storage °C	-25 °C - 85 °C
Temperature - Storage °F	-13 °F - 185 °F

Data sheet
Power supply NG4-F 24 V DC

Technical Data

Classifications

ETIM 7.0	EC000675
ETIM 8.0	EC000675
ETIM 9.0	EC000675
ETIM 10.0	EC000675

Software and additional documents

Software and documentation	Further documentation is available for free download at www.metz-connect.com

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

Power supply NG4-F 24 V DC

Accessories from

P/N	Designation
1105560170	S0/M-F DT
11055670	S0/M-F 4
11056270	T/M-F 4
110570132170	FRAS-F 4/21 24 V AC/DC CAN
110573130270	FAA-F 4 24 V AC/DC CAN
110574130670	FAE-F 4 24 V AC/DC CAN
110575131970	FDE-F 4 24 V AC/DC CAN
1108111326IP	MB-DIO2/1-IP Modbus/BACnet 24V AC/DC
1108121326IP	MB-DIO4/2-IP Modbus/BACnet 24V AC/DC
11083001	MR-GW Modbus RTU / Modbus TCP Gateway
1108300170	MR-F-GW Modbus RTU / Modbus TCP Gateway
1108301370	MR-F-TO4 Modbus RTU
110831131970	MR-F-DI10 Modbus RTU
1108321370	MR-F-AI8 Modbus RTU
11083313260170	MR-F-DIO4/2S Modbus RTU
110833132670	MR-F-DIO4/2 Modbus RTU
110834131970	MR-F-DI4 Modbus RTU
110835130270	MR-F-AO4 Modbus RTU
11083613210170	MR-F-DOA4 Modbus RTU
110836132170	MR-F-DO4 Modbus RTU
110837130270	MR-F-AOP4 Modbus RTU
1108381370	MR-F-TP Modbus RTU
1108381370-01	MR-F-TPS Modbus RTU
1108391370	MR-F-SI4 Modbus RTU
110840133270	MR-F-CI4 Modbus RTU
1108411370	MR-F-SM3 Modbus RTU
1108441370	MR-F-LD6 Modbus RTU
110850131970	LF-F-DI4 LON
110851131970	LF-F-DI10 LON
110852132170	LF-F-DO4 LON
1108531370	LF-F-AI8 LON

Data sheet
Power supply NG4-F 24 V DC

Accessories from

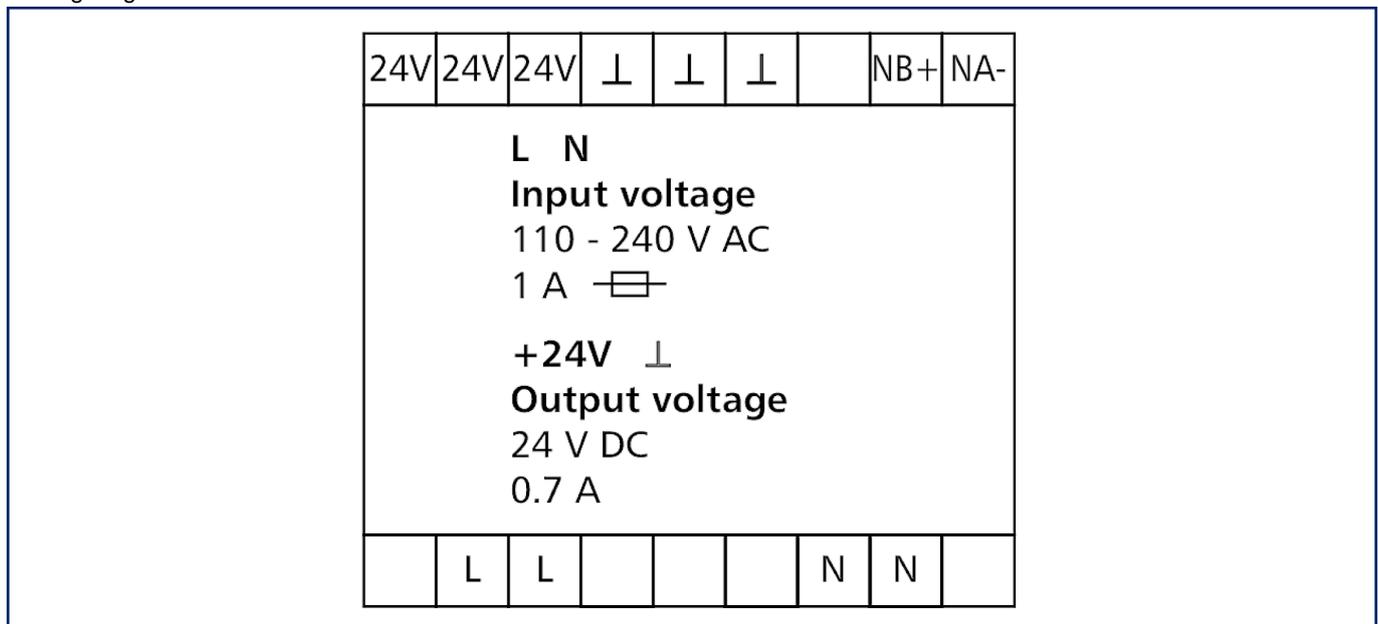|	
1108541370	LF-F-AOP4 LON
110855132670	LF-F-DIO4/2 LON
110856132670	LF-F-DM4/4 LON
1108571370	LF-F-AM2/4 LON
1108581370	LF-F-SI4 LON
1108591370	LF-F-TP LON
1108591370-01	LF-TPS LON
110860133270	LF-F-CI4 LON
1108621370	LF-F-TO4 LON
1108631370	LF-F-DI230 LON
1108791370	LF-F-FAM LON
11088001	BMT-RTR BACnet-Router
1108800170	BMT-F-RTR BACnet-Router
1108801370	BMT-F-TO4 BACnet MS/TP
11088101	BMT-RTR/SC BACnet/SC Router
1108810170	BMT-F-RTR/SC BACnet/SC Router
110881131970	BMT-F-DI10 BACnet MS/TP
1108821370	BMT-F-AI8 BACnet MS/TP
110883132670	BMT-F-DIO4/2 BACnet MS/TP
110884131970	BMT-F-DI4 BACnet MS/TP
110885130270	BMT-F-AO4 BACnet MS/TP
110886132170	BMT-F-DO4 BACnet MS/TP
110887130270	BMT-F-AOP4 BACnet MS/TP
1108881370	BMT-F-TP BACnet MS/TP
1108881370-01	BMT-F-TPS BACnet MS/TP
1108891370	BMT-F-SI4 BACnet MS/TP
110890133270	BMT-F-CI4 BACnet MS/TP

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We realize ideas

Data sheet
Power supply NG4-F 24 V DC

Illustrations

Dimensional drawing

Wiring diagram

24V	24V	24V	⊥	⊥	⊥		NB+	NA-

L N
Input voltage
110 - 240 V AC
1 A

+24V ⊥
Output voltage
24 V DC
0.7 A

	L	L				N	N	

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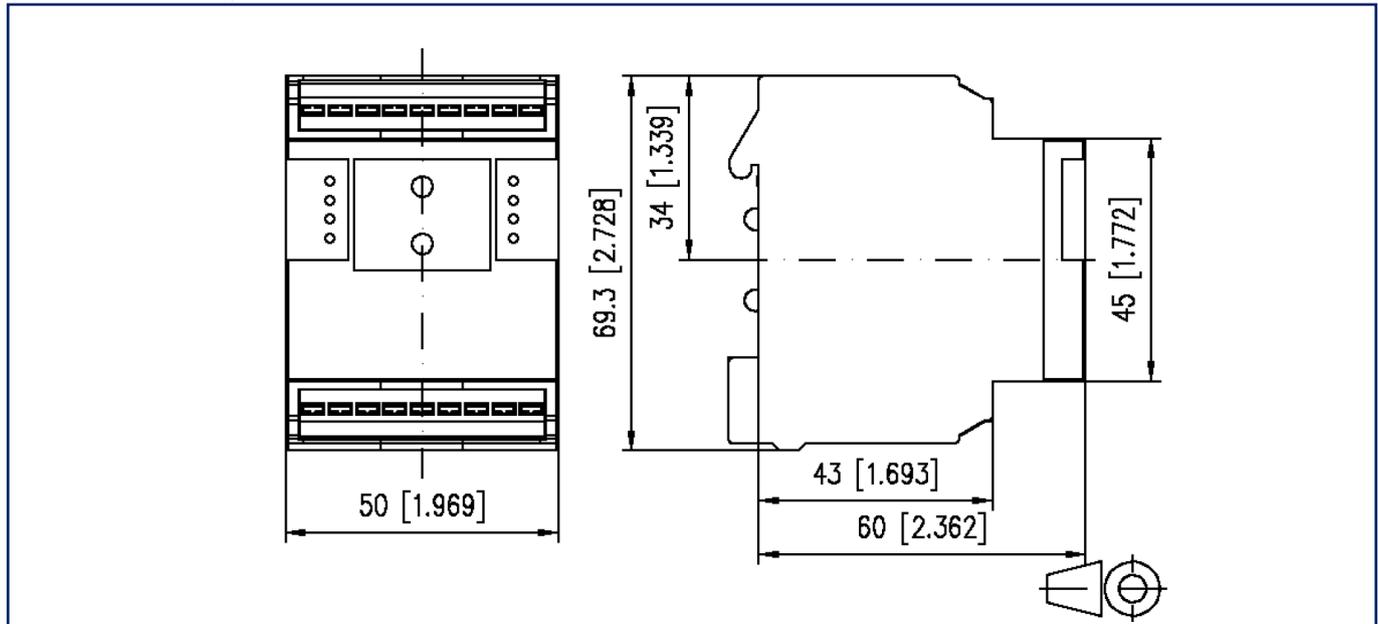
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