

## Master Breakout Box NPN

MVP12V-ON9F-NPGH

Art.No.: 277416

Weight: 0.21

Country of origin: DE

Model designation: MVP12V-ON9F-NPGH

M12 plug connection

with LED for digital PNP-signals 24 V DC

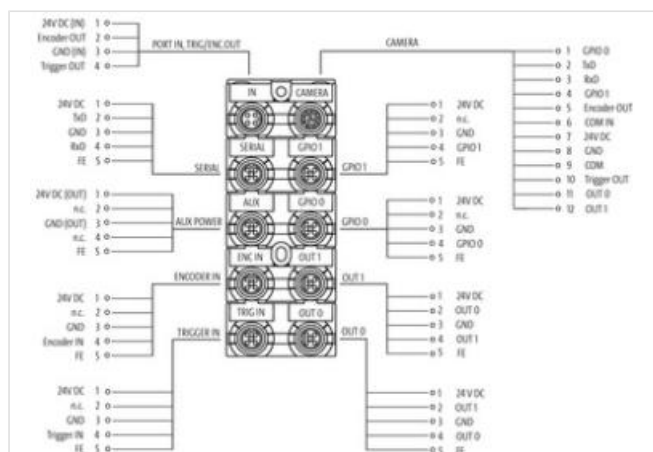
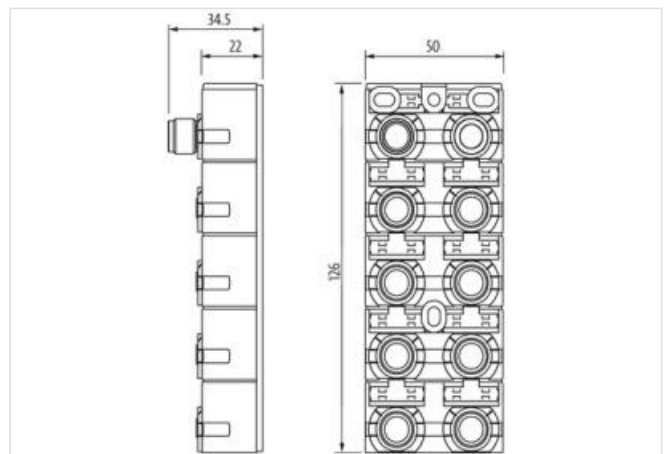
Plastic housings with good resistance against chemicals and oils.

10-way

The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product

### Illustration



Product may differ from Image



### Electrical data

Frequency max. (trigger/encoder) 50 kHz

### Electrical data | Supply

The information in this Product-PDF has been compiled with the utmost care.  
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-05-13

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Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	28 V
Nominal current	1500 mA
Open-circuit current	110 mA

#### Electrical data | Output

Output current	2000 mA
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#### Device protection | Electrical

Installation height max. ASL	2000 m
Degree of protection (EN IEC 60529)	IP65, IP67
Invers-polarity protection	yes
Short-circuit protected	yes

#### Device protection | Mechanical

Shock resistance (EN IEC 60068-2-27)	50 g, 11 ms
Vibration resistance (EN IEC 60068-2-6)	0,75 mm (10 ... 70 Hz), 15 g (70 ... 500 Hz)

#### Mechanical data | Mounting data

Net weight	210 g
Installation measurement	75 mm
Height	34,5 mm
Width	50 mm
Length	126 mm

#### Environmental characteristics | Electromagnetic compatibility

Interference emission	IEC 61000-6-4
Immunity to interference	IEC 61000-6-2

#### Environmental characteristics | Climatic

Operating temperature min.	-25 °C
Operating temperature max.	45 °C
Storage temperature min.	-25 °C
Storage temperature max.	70 °C

#### Conformity

CE	2014/30/EU & 2011/65/EU
UKCA	EN IEC 61000-6-2: 2019 Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments (IEC 61000-6-2:2016 EN 61000-6-3: 2007 + A1:2011 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - E

#### Approvals

UL	UL61010
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#### Connection type 3

Connection type 1	Input
Connection type 2	Output
Connection type 3	X1-X8
Family construction form	M12
Gender	male
Color contact carrier	black
Coding	A
No. of poles	4
PIN 1	24 V DC
PIN 2	Encoder Out
PIN 3	0 V
PIN 4	Trigger Out
Family construction form	M12
Gender	female

Color contact carrier	black
Coding	A
No. of poles	12
PIN 1	GPIO 2
PIN 2	TXD
PIN 3	RXD
PIN 4	GPIO 1
PIN 5	Encoder In 1
PIN 6	Common In
PIN 7	24 V DC Out
PIN 8	0 V
PIN 9	Common Out
PIN 10	Trigger In 0
PIN 11	Out 0
PIN 12	Out 1
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	5
<b>Commercial data</b>	
customs tariff number	85389099
GTIN	4048879887359
Packaging unit	1