



Power supplies

# Intelligent power supply directly in the field



24 V DC power supplies

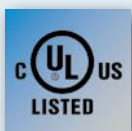
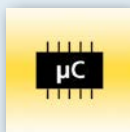


Field mounting reduces voltage losses due to long cable runs

No control cabinet required thanks to protection class IP 67

Outputs protected by electronic fuses

- Output voltage adjustable, current for each output can be set separately
- Status and diagnostic LEDs



## Power supply directly in the field


More and more users mount control components decentrally on the machine instead of in the control cabinet, for example IO-Link masters or other field modules.

With classic power supply from the control cabinet, critical voltage drops occur due to the high currents through the long cables. To prevent this, ifm offers a powerful power supply for mounting directly in the field.

## Protection in the secondary circuit

Integrated electronic fuses reliably protect the components connected to the 24 V power supply against excessive current and short circuits.



Type	Operating voltage [V AC]	IO-Link	Output power (permanent) [W]	Number of output circuits	Plug for output circuits	Order no.
	380...480 ±15% (3-phase)	–	500	4	2 x M12, L-coded	<b>DN4234</b>
	380...480 ±15% (3-phase)	•	500	4	2 x M12, L-coded	<b>DN4237</b>
	110...250 ±15% (1-phase)	•	300	4	2 x M12, A-coded	<b>DN4218</b>

### Further advantages and customer benefits

#### • Adjustable outputs

The 24 V voltage of the output circuits can be set to a limited extent via buttons on the power supply. It can be slightly increased, for example, so that despite voltage drop on longer supply lines, exactly 24 V still arrives at the connected consumer.

The user can also set the tripping current of the four electronic fuses. This provides maximum protection in the event of a short circuit or overload in the secondary circuit.

#### • Operation and display

On the front panel, the power supply has three buttons for setting the current and voltage values. A row of different coloured LEDs also provides a quick overview of the status and allows rapid diagnosis in case of a fault. It shows the current load of the power supply unit or the individual output circuits from 0...200 %, set current and voltage values and which fuses have tripped. A fuse reset button is provided for each output circuit.

#### • More reliability

Electronic fuses reliably detect short circuits even with high line resistances. Due to the four individually fused output circuits, a faulty circuit is selectively switched off, the intact circuits continue to function reliably.

Even with high current peaks, such as when switching capacitive loads, the supply is guaranteed.

#### • Additional IO-Link functions

- Setting of the output voltage
- Transmission of the actual voltage on the primary and secondary side
- Transmission of the present current per channel
- Setting of the tripping currents
- Transmission of the triggered channel in case of a fault
- Resetting of the triggered channel
- Transient counter on the primary side

### Accessories

Description	Order no.
<b>DC connection technology</b>	
Wirable M12 socket, L-coded	<b>E12672</b>
M12 connection cable, L-coded	<b>E12653</b>
M12 connection cable, A-coded	<b>EVC014</b>

Description	Order no.	
	3 poles	5 poles
<b>AC connection technology</b>		
T-splitter 7/8"	<b>E12777</b>	<b>E12778</b>
Wirable connector 7/8"	<b>E12775</b>	<b>E12776</b>
Wirable socket 7/8"	<b>E70170</b>	<b>E12774</b>
Connection cable 2 m, socket	<b>E20428</b>	<b>E12772</b>
Connection cable 5 m, socket	<b>E20429</b>	<b>E12773</b>

### Use of the power supply directly in the field:

