

## Datasheet

### Compact power supply for MICROSENS PoE+ Micro Switches



#### Description

For the use of the PoE or PoE+ function of the MICROSENS MicroSwitch G6 according to IEEE 802.3af/at, this power supply is the ideal solution for a compact and reliable installation. It's suitable for installation in cable ducts, underfloor tanks as well as cavity, surface and flush mounted installations. The optimal price/performance level makes the compact power supply the most popular choice for the installation of PoE/PoE+ supported FTTO infrastructure.

#### Features

- Compact power supply, low weight
- For use in cable duct, underfloor or floor tank
- High efficiency of 87 % (typ.)
- Input voltage range 90..264VDC
- Output voltage 54 VDC
- Touch-proof terminal block according to VDE
- high power density at 65W
- EMB/HF filter for interference suppression according to EN55022-B, FCC2/15-B, CISPR22-B
- Fully regulated and protected output
- No minimum idling load required
- Over voltage protection
- 3x 1,5mm<sup>2</sup> open cable ends
- Cable lengths on both sides 1m

## Technical Features

### General

<b>Type</b>	Compact power supply 54VDC for PoE+ devices
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### Power Supply (AC)

<b>Input</b>	Rated input 115/230VAC Input voltage range 90..264VAC Input frequency (AC) 47..63Hz
<b>Input current (100/240VAC) under full load</b>	2/1A (max.)
<b>Switch-on current (110/220) Cold start</b>	50/100A
<b>Efficiency</b>	typ. 87% (full load at 230VAC, 25°C)

### Power Supply (DC)

<b>Output</b>	Nominal output voltage 54VDC output current: 1,2A Nominal power output: 65W
<b>Overvoltage- protection</b>	70V (max.)
<b>Overload protection</b>	150% of maximum current
<b>Ripple</b>	<600mV (20MHz)
<b>Connector</b>	3-pin. screw clamp

**Grounding (PE)** PE conductor  
**MS700710**

### Conditions

<b>operating- temperature</b>	0..+40°C
<b>Storage- temperature</b>	-20..+85°C
<b>Rel. humidity</b>	10..90% non condensing

### Mechanical

<b>Dimensions MS700710</b>	128,5mm x 43,5mm x 30mm (W x D x H)
<b>Weight</b>	305g
<b>Colour of housing</b>	Black
<b>Housing material</b>	Plastic (94-V0)
<b>Cable length + termination</b>	AC 1m/3-plug, openDC 1m/ plug (V+/V-), grounding plug (6,3x0,8mm)

### Reliability

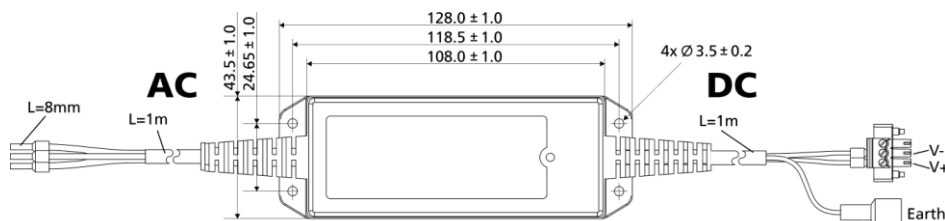
<b>MTBF (calculated)</b>	>100.000h (according to MIL-HDBK-217F)
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### Standards

<b>Safety</b>	IEC 60950-1 / EN 60950-1
<b>EMC</b>	EN 55022 class B, EN 55024
<b>CE</b>	2004/108/EC (EMC) 2006/95/EC (Low Voltage) 2009/125/EC (ecodesign) 2011/65/EU (RoHS)

## Dimensions (in mm)

The AC input wires are  
colour coded:  
N: blue  
L: brown  
PE: green/yellow



## Mounting options



Installation fittings and mounting adapters for the use of the installation power supply unit can be found in our document "[Accessories for FTTO installation components.pdf](#)"

## Ordering Information

### PoE+ power supply 54VDC

	Description	Art.-No.
	Power supply 90-264 VAC / 54 VDC, 1.2 A, 65 W, open wire ends, fixed cable, conducted grounding	<b>MS700701</b>

### PoE+ power supply including adaptors

	Description, MS70010 + Adaptation	Art.-No.
	On C-profile adaptor, 35 mm rail (Combi / DIN)	<b>MS700710-UNI</b>
	On C-profile adaptor, 35 mm rail (Combi / DIN), with mounted WAGO plug 230V-side3-pin	<b>MS700710-UNI-WG*</b>
	On C-profile adaptor, 35 mm rail (combi / DIN), with mounted WIELAND plug 230V-side, 3-pin	<b>MS700710-UNI-WL**</b>
	with fitted WAGO plug 230V-side 3-pin	<b>MS700710-WG*</b>
	with mounted WIELAND plug 230V-side, 3-pin	<b>MS700710-WL**</b>
	with mounted Schuko plug	<b>MS700710-SST</b>
	on adapter for mounting in Legrand-Cable duct	<b>MS700710-LGF</b>
	on adapter for mounting in Legrand duct, with mounted WAGO plug 230V-side3-pin	<b>MS700710-LGF-WG*</b>
	on adapter for mounting in Legrand duct, with fitted WIELAND plug 230V-side, 3-p	<b>MS700710-LGF-WL**</b>
	with mounted Kycon plug 230V-side3-pin	<b>MS700710-KY</b>
	on adapter, front locking grounding clamp, for mounting in Hager BRS duct	<b>MS700710-FTH</b>
	on adapter, front locking grounding terminal, for mounting in Hager BRS duct, with mounted WAGO plug 230V-sided 3-pin	<b>MS700710-FTH-WG*</b>
	on adapter, front locking grounding clamp, for installation in Hager BRS duct, with fitted WIELAND plug 230V-side, 3-pin	<b>MS700710-FTH-WL **</b>

\*WG: the matching socket to the mounted plug is part.no. MS190261-F

\*\*WL:the matching socket to the mounted plug is part.no.MS190260-F

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