

# Power supplies Ex9PS

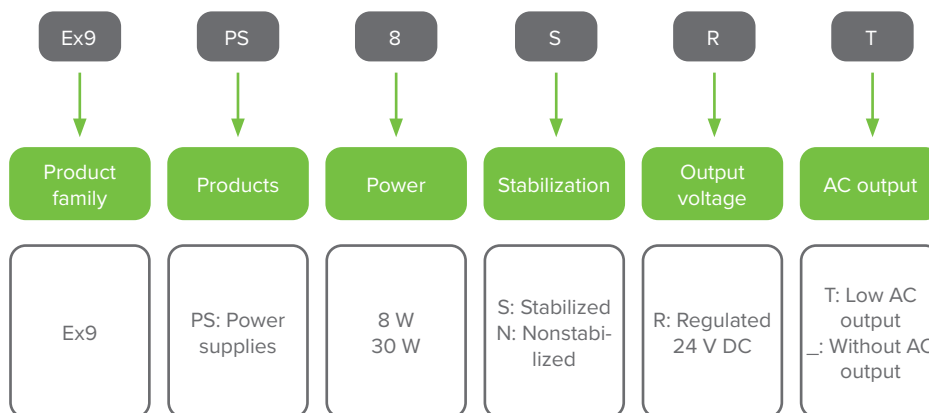


- Power range from 8 W up to 30 W
- Version with built-in transformer for small output AC voltage
- Types of output voltage
  - 12-24 V DC stabilized
  - 5-24 V DC stabilized
  - 24 V DC nonstabilized
  - 24 V AC
- Integrated internal protections

DIN-rail mounted power supplies Ex9PS provide a convenient solution for powering DC operated devices like bells, videophones, vending machines, security systems, etc. Since these power supplies are air convection cooled, no cooling fans are needed. Output voltages from these supplies range from 5 V up to 24 V DC with power ratings from 8 W up to 30 W.

All power supplies have several built-in protections.

## Type Key



## Certification marks



# Power supplies **Ex9PS**

## Power supplies

- Stabilized voltage output
- Version with adjustable (12-24 V DC) stabilized output
- The output current is limited by an electronic fuse, when the maximum current is exceeded, the source switches off, after a short delay it switches on again
- Thermal protection - in case of thermal overload the source switches off, after cooling it switches on again



Operating voltage	Output voltage	Power	Stabilized output	Article No.	Type	Packing
100-250 V AC	12-24 V DC	30 W	YES	111726	Ex9PS 30W S R	1/50

## Power supplies with built-in transformer

- Built-in transformer for 24 V AC output
- Type Ex9PS 8W N 24V AC / DC T offers 24 V AC / DC unstabilized and is protected by a fuse
- Type Ex9PS 8W S R T offers 5-24 V DC stabilized and 24 V AC / DC unstabilized and is protected by an electronic fuse



Operating voltage	Output voltage	Power	Stabilized output	Article No.	Type	Packing
230 V AC	5-24 V DC	8 W	YES	111727	Ex9PS 8W S R T	1/50
230 V AC	24 V DC	8 W	NO	111728	Ex9PS 8W N 24V AC/DC T1/50	

## Power Supplies

### General parameters

Thermal protection - in case of thermal overload the source switches off, after cooling it switches on again
The output current is limited by an electronic fuse, when the maximum current is exceeded, the source switches off, after a short delay it switches on again
Stabilized output voltage

### Electrical parameters

	<b>Ex9PS 30W S R</b>
Tested according to	EN 61204-1, EN 61204-3, EN 61204-7
Rated operating voltage U	100 - 250 V AC
Burden without load (max.)	10 VA / 1.7 W
Burden with full load (max.)	70 VA / 37 W
Protection	fuse T2A
<b>Output</b>	
Output voltage DC	12.2 V / 24.2 V
Max. current	2.5A / 1.25 A
Tolerance of output voltage	± 3%
Electrical strength input- output	4kV
Output indication	green LED
Wave of off-load output voltage	40 mV
Wave of output voltage with max load	500 mV
Time delay after connection	max. 1s
Time delay after over-load	max. 1s
Efficiency	> 81%
Electronic fuse	electronic protections short-circuit, over load, over voltage (from 120% of rated output)

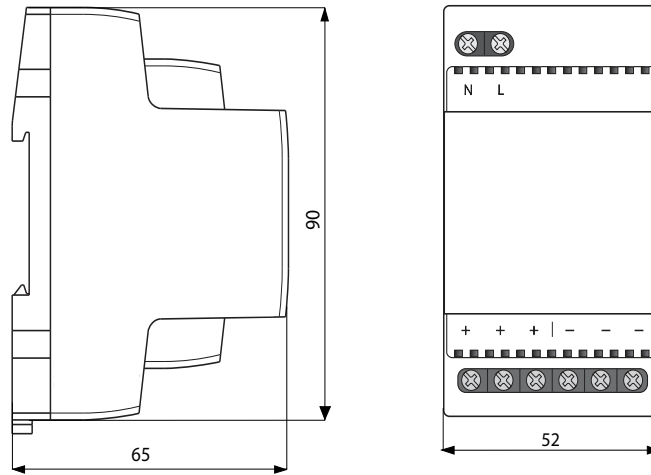
### Mechanical parameters

Device width	52 mm
Device height	90 mm
Frame size	45 mm
Mounting	onto 35 mm device rail (DIN)
Degree of protection	front protection IP40 / terminals IP20
Terminals	screw terminals
Terminal capacity	1 – 2.5 mm <sup>2</sup>
Fastening torque of terminals	0.8 Nm
Ambient temperature	-20°C – +40°C
Overvoltage category	II
Pollution degree	2
Weight	0.163 kg

## Power Supplies

### Dimensions

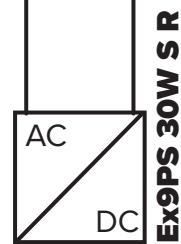
#### **Ex9PS 30W S R**



### Wiring diagram

AC 100 - 250 V  
50 Hz / 60 Hz

N L



+ -  
DC 12 V - 24 V  
2.5 - 1.25 A

# Technical Data **Ex9PS**

## Power Supplies with built-in transformer for AC output

General parameters	
Power supplies with built-in transformer for AC output	
Integrated short circuit protection	

Electrical parameters		
	Ex9PS 8W S R T	Ex9PS 8W N 24V AC/DC T
Tested according to	EN 61204-1, EN 61204-3, EN 61204-7	
Rated operating voltage U	230 V AC	
Supply voltage tolerance	-15 %; +10 %	
Consumption without load (max)	9 VA / 2.5 W	9 VA / 2 W
Consumption with load (max)	11.5 VA / 8 W	
Protection	primary wind T100 mA	
<b>Output</b>		
Output voltage	5-24 V DC stab. 24 V DC nonstab. 24 V AC	24V DC nonstab. 24 V AC
Tolerance output voltage	±5 %	x
Dielectrical strenght (prim/sec)	4 kV	
Wave of output voltage	300 mV	max. 3 V
Output voltage-no load AC	32 V	
Output voltage-no load DC	44 V	
Effi ciency	75 %	x
Electronic fuse	Towards black-out and current overloading	x

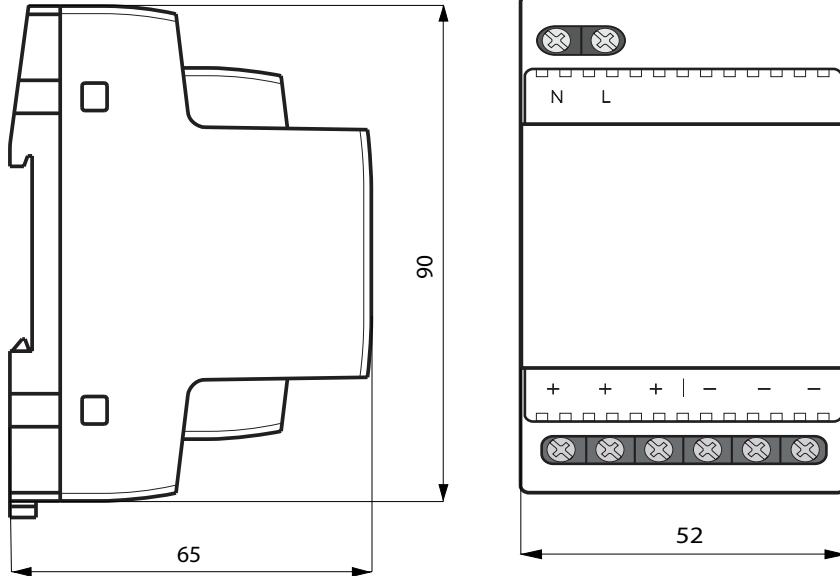
Mechanical parameters		
Device width	52 mm	
Device height	90 mm	
Frame size	45 mm	
Mounting	onto 35 mm device rail (DIN)	
Degree of protection	front protection IP40 / terminals IP20	
Terminals	screw terminals	
Terminal capacity	1 – 2,5 mm <sup>2</sup>	
Fastening torque of terminals	0.8 Nm	
Ambient temperature	-20°C – +40°C	
Overvoltage category	II	
Pollution degree	2	
Weight	0.398 kg	0.368 kg

# Technical Data **Ex9PS**

## Power Supplies with built-in transformer for AC output

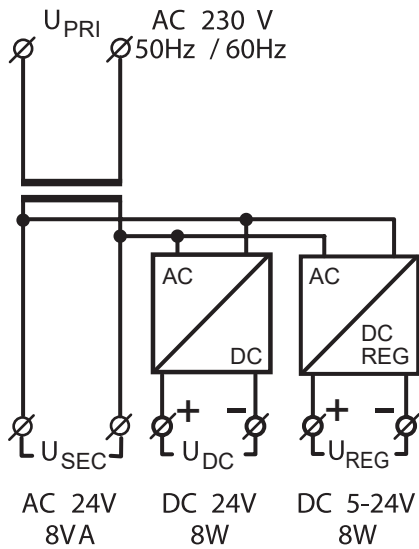
### Dimensions

**Ex9PS 8W S R T**  
**Ex9PS 8W N 24V AC/DC T**



### Wiring diagram

**Ex9PS 8W S R T**



**Ex9PS 8W N 24V AC/DC T**

