

Signal Lamps **Ex9PDe**



- Installation Signal Lamps
- Meet requirements of IEC / EN 60947-5-1
- LED technology
- Operating voltage 24, 48 and 230 V AC/DC
- Width 1 MU
- 1, 2 and 3-LED versions
- Dual-colour LED in Ex9PD1e, Ex9PD2e

Installation signal lamps Ex9PDe are designed and tested according to standard IEC / EN 60947-5-1. They are based on LED technology and suitable e.g. for circuit status indication.

There are available versions with rated operating voltage 24, 48 and 230 V AC/DC, with one or two dual-colour (green/red) LEDs. The last variant with three red LEDs is available with operating voltage 230/400 V AC. This kind of signal lamp is used mainly for phase voltage presence check in 3-phase connections.

All versions are designed as 1 module unit width devices including the three LED version. Used internal technology of LED lights ensures very low power consumption during operations and very high lifetime.

Type Key

Ex9	PD	2	e	230V	AC/DC
↓	↓	↓	↓	↓	↓
Product family	Product	LEDs	LED's colour	Rated voltage	Current character
Ex9	PD: Installation Signal Lamps	1, 2	red/green (dual-colour)	24, 48, 230 V	AC/DC
		3	red	230/400 V	AC

Certification marks



Signal Lamps Ex9PDe

1-LED version, dual-colour LED

■ Priority colour red (when both colours are connected, the red one is ON only)



No. of LEDs	Colour	Article No.	Type	Packing
1	red/green	106307	Ex9PD1e 24V AC/DC	2/162
1	red/green	106308	Ex9PD1e 48V AC/DC	2/162
1	red/green	106309	Ex9PD1e 230V AC/DC	2/162

2-LED version, dual-colour LEDs

■ Priority colour red (when both colours are connected, the red one is ON only)



No. of LEDs	Colour	Article No.	Type	Packing
2	red/green	106310	Ex9PD2e 24V AC/DC	2/162
2	red/green	106311	Ex9PD2e 48V AC/DC	2/162
2	red/green	106312	Ex9PD2e 230V AC/DC	2/162

3-LED version, red LED colour



No. of LEDs	Colour	Article No.	Type	Packing
3	red	106313	Ex9PD3e 230/400V AC	2/162

Technical Data **Ex9PDe**

Installation Signal Lamps

General parameters

Modular design
Suitable e.g. for circuit status or phase connection indication
Based on LED technology

Electrical parameters

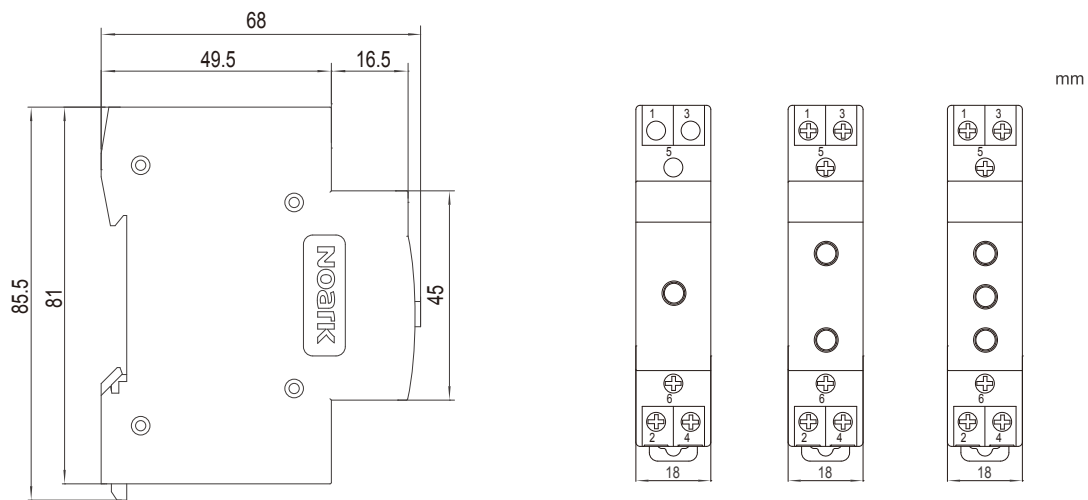
	Ex9PD1e, Ex9PD2e	Ex9PD3e
Tested according to	IEC/EN 60947-5-1	
Light technology	LED	
Number of LEDs	1, 2	3
LED colours	red/green	red
Rated operating voltage U_e	24, 48, 230 V AC/DC	230/400 V AC
Rated current I_e	≤ 20 mA / LED	
Conventional free air thermal current I_{th}	20 mA	
Rated insulation voltage U_i	500 V	
Rated impulse withstand voltage U_{imp}	4 kV	
Electrical service life	$\geq 30\,000$ working hours	
LED luminance L_v	≥ 40 cd/m ²	

Mechanical parameters

Device width	18 mm
Device height	81 mm (85.5 mm including rail clip)
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	lift
Terminal capacity	1 — 2.5 mm ²
Fastening torque of terminals	0.8 Nm
Ambient temperature	-5 — +40 °C
Altitude	≤ 2000 m
Relative humidity	≤ 90 % at +20°C
Resistance to humidity and heat	class 2
Pollution degree	3
Installation class	III
Weight	0.06 kg

Installation Signal Lamps

Dimensions



Wiring diagrams

