

Your Advantages

- Simple and easy to recognise signalling of mains status for applications according to DIN VDE 0100-710
- Audible and visible alarm

Features

- Button for reset and lamp test
- External connection of reset- and lamp test button possible
- Button for function test
- Built in audible alarm
- De-energized on trip
- Flush mounting, surface mounting or built-in model

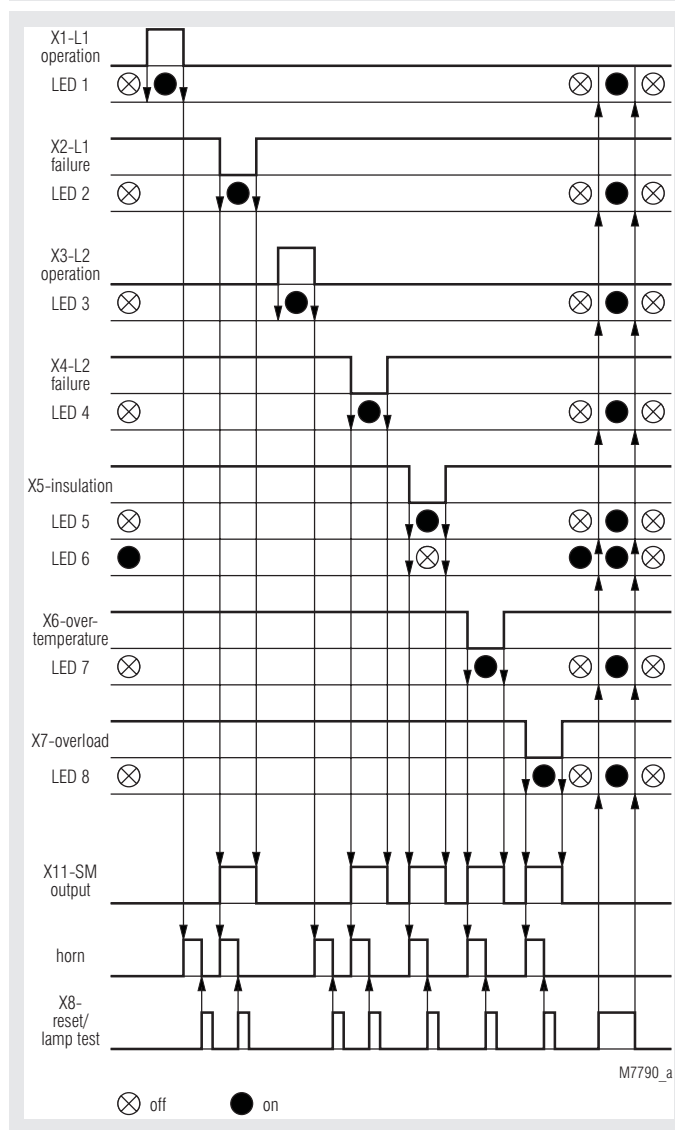
Product Description

The test and indication panel UP5864 provides visual and audible indications of operational and alarm status in medically used rooms according to DIN VDE 0100-710. The device is available for flush mounting and surface mounting.

Approvals and Markings



Function Diagram

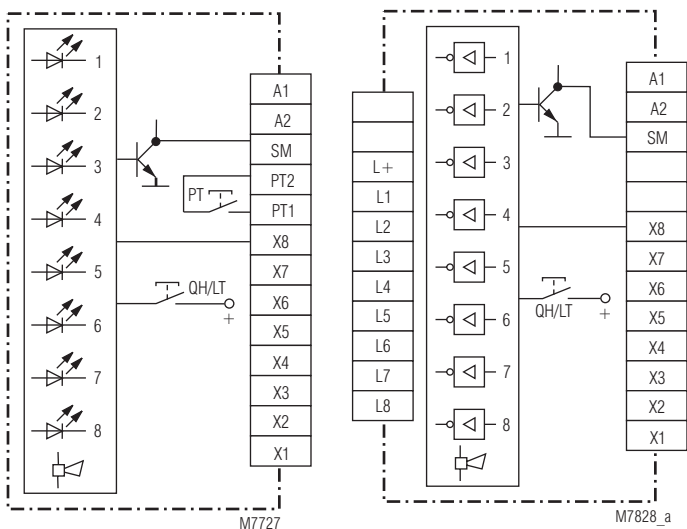


Indication

LED indicators: On, when function active

Indicator:	Function
Line 1 active	The voltage supply comes from the preferred input
Line 2 active and line 1 failure	The voltage supply comes from line 2 because the preferred input is faulty
Line 1 active and line 2 failure	The voltage supply comes from the preferred input, but line 2 is not available
Line 2 active and line 1 failure and line 2 failure	The voltage supply comes from line 2 as line 1 is on failure and line 2 is on undervoltage
Overload	The IT-system takes to much curren
Overtemperature	The transformer for the IT-system is overloaded
Insulation o.k	The insulation resistance of the IT-system is high enough
Insulation failure	The insulation resistance of the IT-system is to low

Circuit Diagrams



UP 5864

UP 5864/210

Connection Terminals

Terminal designation	Signal description
A1, A2	Power supply of the device
X1 - X7	Signal inputs
X8	Reset audible alarm / lamp test
PT1 - PT 2	Function test for insulation monitor
SM	Semiconductor outputs for common alarm
L1 - L8	Outputs for lamps
L+	Supply for lamps

Technical Data

Input

Nominal voltage U_N:	AC/DC 24 V
Voltage range:	AC 0.8 ... 1.1 U_N DC 0.9 ... 1.2 U_N
Current per input:	0.25 mA
Nominal consumption:	6 VA

Output

Semiconductor output SM: UP 5864.91	1 NO Transistor output
Switching capacity of the semiconductor output:	
Switching voltage:	30 V
Switching current max.:	100 mA
Switching capacity of the lamp output:	
Switching voltage:	50 V
Switching current max.:	50 mA

General Data

Operating mode:	Continuous operation	
Temperature range		
Operation:	-20 ... + 45°C	
Storage:	-25 ... + 60°C	
Altitude:	< 2000 m	
Clearance and creepage distances		
Rated impulse voltage / pollution degree:	4 kV / 2	IEC 60664-1
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61000-4-2
HF-irradiation		
80 MHz ... 1 GHz:	10 V / m	IEC/EN 61000-4-3
1 GHz ... 2.7 GHz:	3 V / m	IEC/EN 61000-4-3
Fast transient:	2 kV	IEC/EN 61000-4-4
Surge voltage		
Between power supply:	0,5 kV	IEC/EN 61000-4-5
Between wire and ground:	2 kV	IEC/EN 61000-4-5
Interference suppression:	Limit value class B	EN 55011
Degree of protection:		
Housing:	IP 40	IEC/EN 60529
Terminals:	IP 20	IEC/EN 60529
Housing:	Thermoplastic with V0 behaviour to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm, frequency 10 ... 55 Hz IEC/EN 60068-2-6	
Climate resistance:	20 / 045 / 04 IEC/EN 60068-1	
Terminal designation:	EN 50005	
Wire connection:	DIN 46228-1/-2/-3	
Terminals fixed		
Cross section:	1 x 0.14 ... 1.5 mm ² solid or stranded or 1 x 0.25 ... 0.5 mm ² stranded wire with sleeve or 2 x 0.14 ... 0.5 mm ² solid or 2 x 0.14 ... 0.34 mm ² stranded	
Insulation of wires or sleeve length:	5.0 mm	
Pluggable terminals		
Cross section:	1 x 0.14 ... 1.5 mm ² solid or stranded or 1 x 0.25 ... 0.5 mm ² stranded wire with sleeve or 2 x 0.08 ... 0.5 mm ² solid or 2 x 0.08 ... 0.75 mm ² stranded	
Insulation of wires or sleeve length:	7.0 mm	
Wire fixing:	Box terminal with wire protection	
Fixing torque:	0.22 ... 0.25 Nm	
Weight:	200 g	

Dimensions

Width x height x depth:	
Flush mounting:	82 x 150 x 57 mm
Surface mounting:	80 x 160 x 57 mm

Accessories

Power supply unit IP 5592/107: Article number: 0052956

Standard Type

UP 5864 AC/DC 24 V

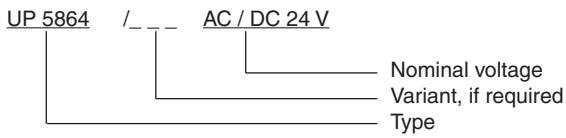
Article number: 0052311

- Nominal voltage U_N : AC/DC 24 V
- Flush mounting fixed terminals

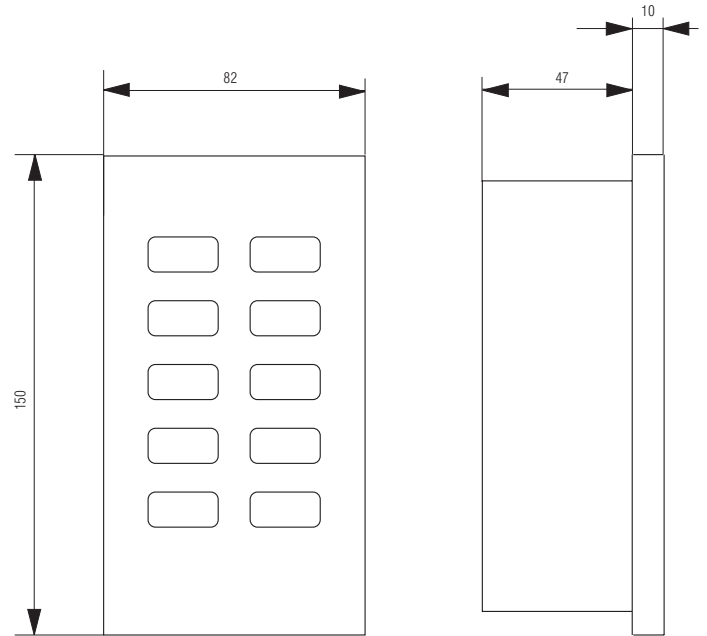
Variants

UP 5864/010:	Flush mounting plug-in terminals
UP 5864/100:	Surface mounting fixed terminals
UP 5864/110:	Surface mounting plug-in terminals
UP 5864/200:	Built-in model fixed terminals
UP 5864/210:	Built-in model plug-in terminals

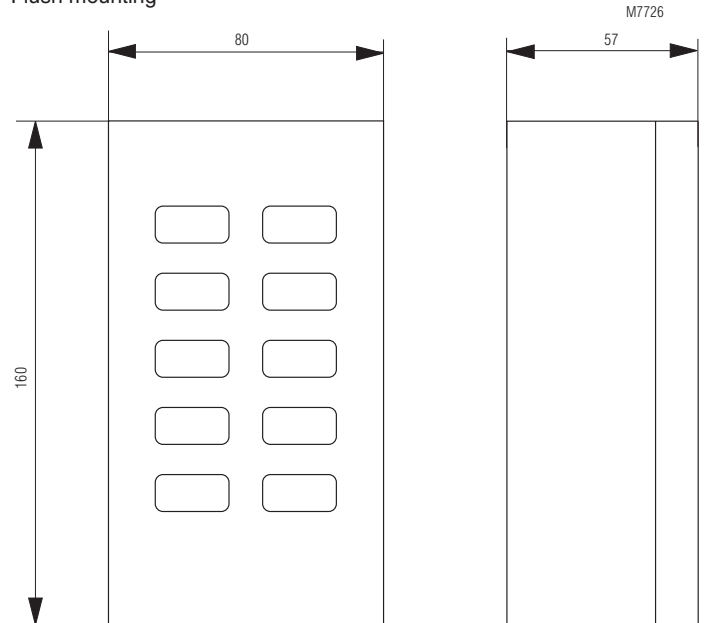
Ordering example for variants



Dimensions



Flush mounting

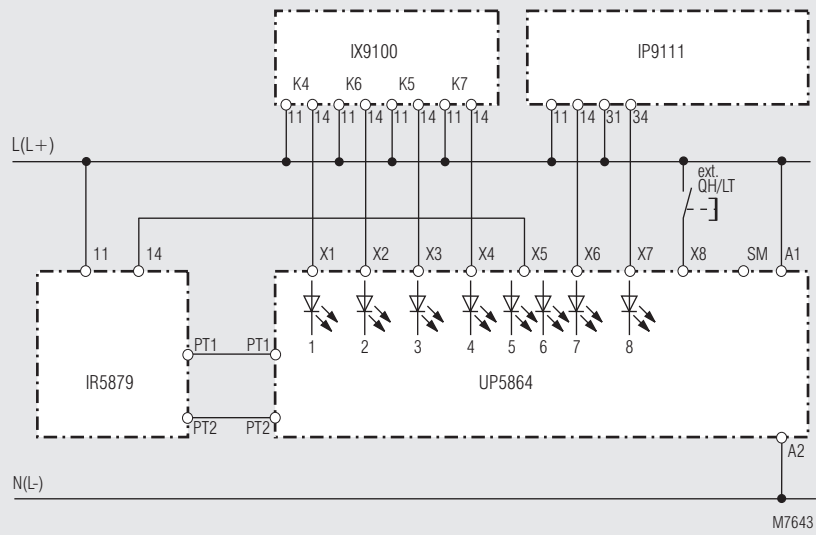


Surface mounting

M7726

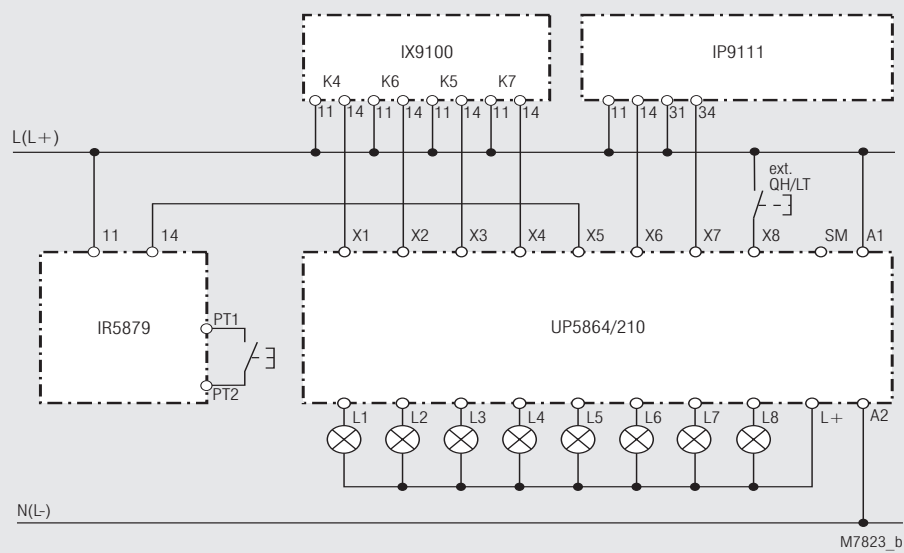
M7829

Connection Example for Flush or Surface Mounting



- X1 - X7 Signal inputs
- X8 Reset audible alarm / lamp test
- SM Common alarm
- PT1 - PT 2 Function test

Connection Example (Built-in Model)



- X1 - X7 Signal inputs
- X8 Reset audible alarm / Lamp test
- SM Common alarm
- PT1 - PT 2 Function test
- L1 - L8 Outputs for lamps
- L+ Supply for lamps