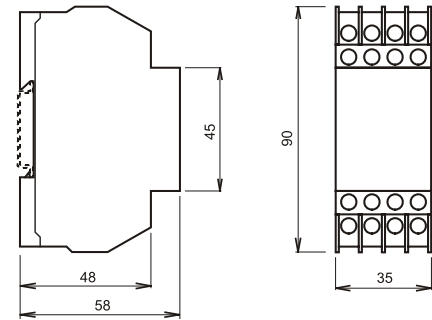


Features

- universal DC stabilized power supply and switching units
- for reliable sensors energizing and state transform to relay contacts
- possible to connect sensors with various outputs (NPN, PNP, "S", NAMUR - only for safe areas, potential free contact)
- resistant to short circuits, current overloading and overvoltages
- safety requirements according to EN 61010-1
- LED state indication
- mounting on DIN rail 35 mm in distribution cabinet

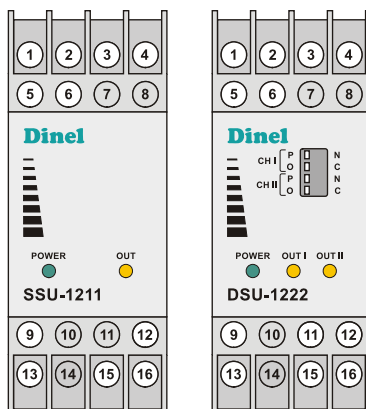
Dimensional drawing



Technical data

Type	SSU-1211	DSU-1222
Nominal supply voltage	230 V / 50 Hz	
Allowed supply voltage tolerance	± 10%	
Power demand	4 VA	
Output voltage	12 V DC	
Output voltage tolerance	± 10%	
Ripple of output voltage	80 mV at 60 mA	80 mV at 50 mA
Maximum total load current	60 mA	50 mA
Short-circuit output current	type 300 mA	
Maximum short-circuit duration at output	unlimited	
Electric strength - mains 230V - output 12 V	4 kV	
Ambient working temperature	-20 to + 50 °C	
Cover protection degree - box	IP 40	IP 20
- terminals	IP 20	IP 20
Housing material	polycarbonate	
Terminal material	CuBe	
Max. / recommended conductor cross-section	4 mm ² / 0,5 ÷ 1 mm ²	
Weight	c. 0,2 kg	
Connection to 230 V mains only trough a switch or circuit breaker		
Internal protection on 230 V side by fuse T 50 mA		
Electrical safety requirements due to	EN 61010-1	
EMC	EN 55022, EN 61000-4-2,-3,-4,-5,6,-11	

Front panels and terminal numbering



Signalling LEDs

Green "POWER"

- *on* - connection of 230 VAC supply, correct function
- *off* - failure (short-circuit at supply terminals)

Orange "OUT" / "OUT I & OUT II"

- *on* - output relay is switched on
 - SSU-1211** - contact 12, 16 is closed
 - DSU-1222** - contact 11, 12 or 15,16 is closed
- *off* - output relay is switched off (released)
 - SSU-1211** - contact 15, 16 is closed
 - DSU-1222** - contact 11, 12 or 15,16 is open

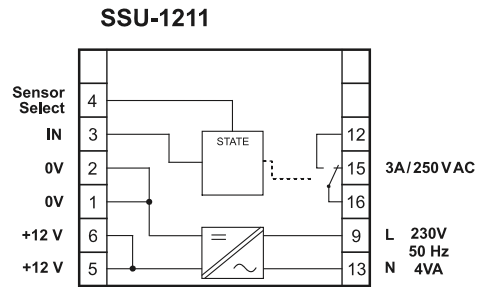
Block and wiring diagram - SSU-1211

Connection to sensors with NPN, PNP output

+ U of sensor terminal No. 6
 output (Q) of sensor terminal No. 3
 0 V of sensor terminal No. 2

Connection to sensors with output "S", Namur, contact

+ U of sensor terminal No. 3
 0 V of sensor terminal No. 2



Sensor type selection

NPN, "S", Namur, contact connection between terminals No. 4 and 5
 PNP connection between terminals No. 4 and 1

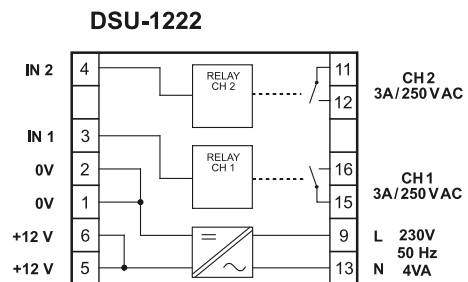
Block and wiring diagram - DSU-1222

Connection to sensors with NPN, PNP output

+ U of sensor terminal No. 6
 output (Q) of sensor terminal No. 3
 0 V of sensor terminal No. 2

Connection to sensors with output "S", Namur, contact

+ U of sensor terminal No. 3
 0 V of sensor terminal No. 2



Sensor type selection

- Switch **"P / N"**
- position P - DSU reacts on current flowing *to* the input terminals (No. 3, 4)
 - for sensors with PNP output
 - position N - DSU reacts on current flowing *from* the input terminals (No. 3, 4)
 - for sensors with output type NPN, "S", NAMUR, or simple contact
- switch **"O / C"**
- position O - output contact reacts positively
 - output contact is closed when the current flows to the input
 - position C - output contact reacts negatively
 - output contact is open when the current flows to the input