



**TECHNICAL DATA**

**SWITCHING AMPLIFIER 521**

Supply voltage	Wide range power supply 20 ... 250 V AC/DC, 100 mA ... 20 mA
Display	LED display for output pulses
Storage temperature	°C -40 ... +70
Operating temperature	°C 0 ... +55
Output - type	Solid stay relay (SSR), output volt-free
Output - load	Max. 230 V / 100 mA ~
Min. input pulse duration	6 ms
Max. input pulse duration	Infinite
Outputs	Can be switched over via turn switch; S <sub>1</sub> = Channel 1, S <sub>2</sub> = Channel 2
Inputs	Initiator 571 / 572; Reed switch 570, IR transmitter 571, PV14
Housing - type	Snap-on housing
Housing - fixing	Mounting rail to EN 50022 (35 x 7.5)
Protection class - housing	IP 20
Protection class - terminal	IP 10
Weight	g 200

Separate working outputs (S<sub>x</sub> = Channel 1 or Channel 2)

S<sub>x</sub> = 0 | Output<sub>x</sub> = Input<sub>x</sub> --> direct transmission / permanent contact

S<sub>x</sub> = 2 | Output<sub>x</sub> = Input<sub>x</sub> with 0.1 sec output pulse 

S<sub>x</sub> = 3 | Output<sub>x</sub> = Input<sub>x</sub> with 0.3 sec output pulse 

S<sub>x</sub> = 4 | Output<sub>x</sub> = Input<sub>x</sub> with 2 sec output pulse 

Input-Addition (Channel 1 + 2) --> Output<sub>x</sub> (max. up to 100 pulses per channel in memory)

S<sub>x</sub> = 9 | Output<sub>x</sub> = E1 + E2 with 0.1 sec output pulse 

S<sub>x</sub> = A | Output<sub>x</sub> = E1 + E2 with 0.3 sec output pulse 

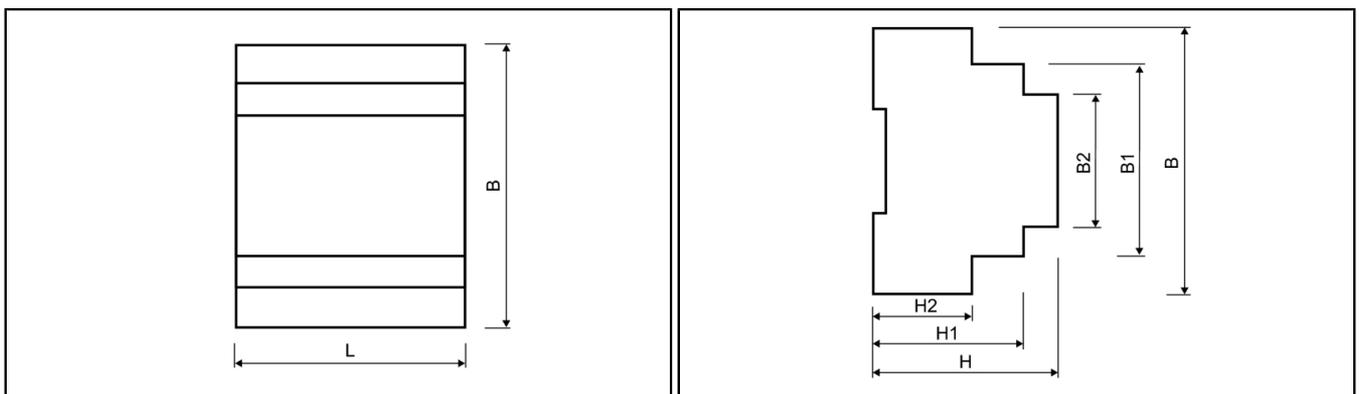
S<sub>x</sub> = B | Output<sub>x</sub> = E1 + E2 with 2 sec output pulse 

**TECHNICAL DATA INPUTS**

**SWITCHING AMPLIFIER 521**

Initiator 572, 573	8 mA (short-circuit-current), 1.6 mA (switching point)
Reed switch 570	8 mA (short-circuit-current), 1.6 mA (switching point)
IR transmitter 571	5 mA (short-circuit-current), 1.0 mA adjustable by front trimmer (switching point)
PV14	5 mA (short-circuit-current), 1.0 mA (switching point)

**DIMENSIONS**



**SWITCHING AMPLIFIER 521**

Length	L	mm	72
Width	B	mm	91
Width	B1	mm	65
Width	B2	mm	46
Height	H	mm	62
Height	H1	mm	51
Height	H2	mm	33

**ORDER REFERENCES**

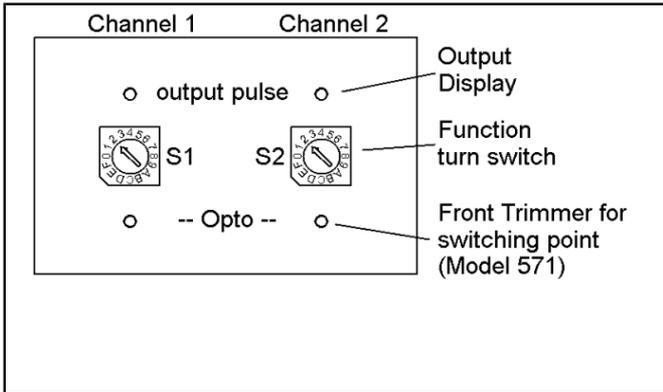
**SWITCHING AMPLIFIER 521**

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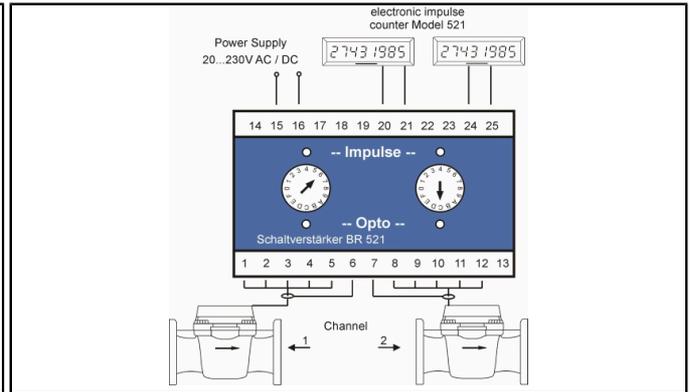
Remark	Switching Amplifier (Snap Bar) (SSR) 20 ... 250 V AC/DC
Article number	521 000 16

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## OPERATION TURN SWITCH | CONNECTIONS

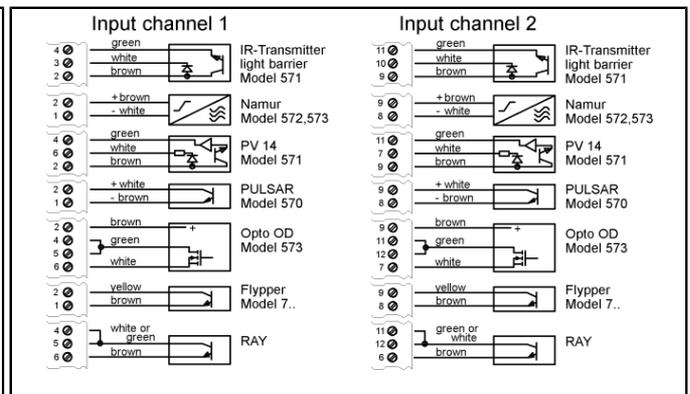
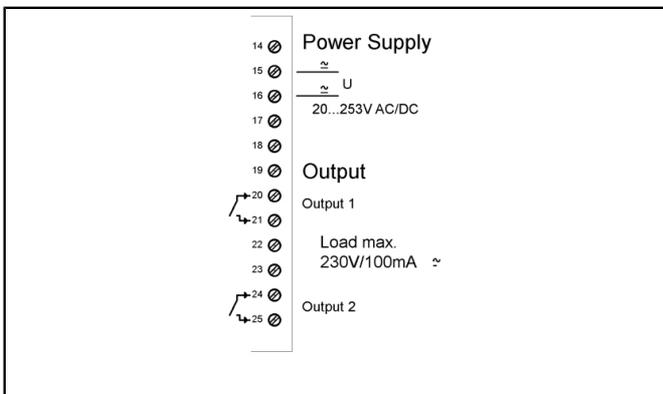


Operation turn switch

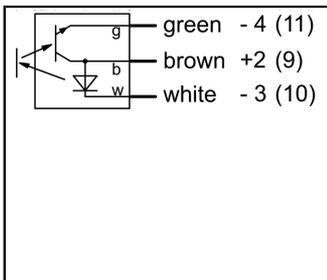


Connections

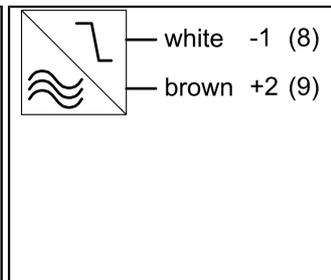
## PIN ASSIGNMENT



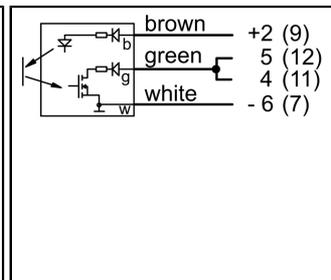
## CONNECTION OF SENSORS



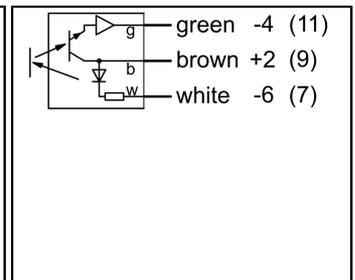
Reflex light barrier (571)



Namur (572, 573)

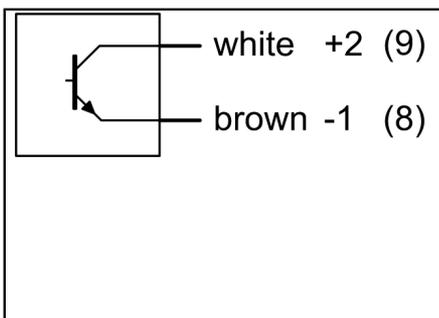


Open drain (573)

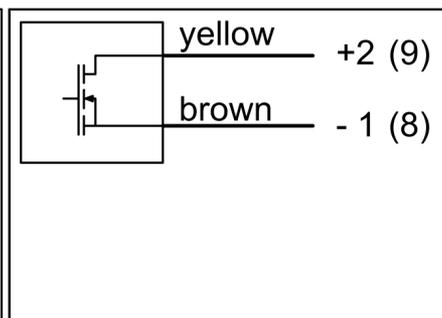


Reflex light barrier PV 14

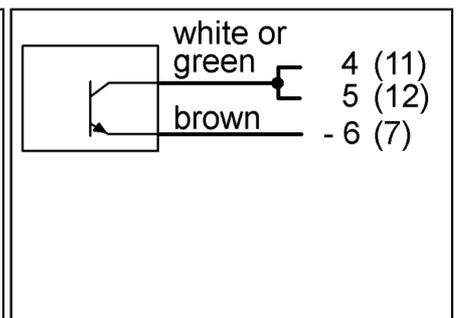
## CONNECTION OF SENSORS / METERS



Pulsar



Electronic counter module



RAY

## **Economic Actor Information**

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

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