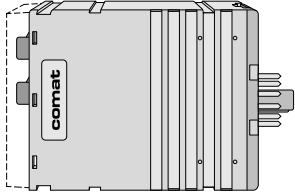
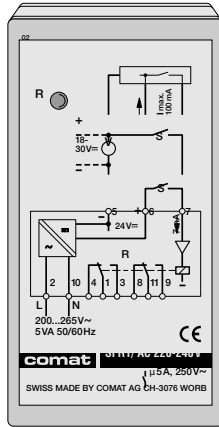


# Amplifier relay SFR1



WHD(mm): 38x72x92 (+9)



## SFR1



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### Amplifier relay

Supply unit with integrated switching amplifier for 3-wire PNP sensors, NAMUR as per DIN 19234 as well as for contact triggering also with external power supply.

The equipment belongs to the C35 family with a 11-pole plug (IEC 67-1-18a) and a fitting width of 35 mm.

The input wiring is specifically suitable for long incoming circuits.

Indication of triggering status by LED.

Robust relay output with two power changeover contacts for 5 A, 250 V.

#### Operating voltage

$U_{\text{nominal}}$	<b>AC 220-240V~</b>	<b>AC 110-120V~</b>
$U_{\text{operational}}$	AC 205-265V~	AC 95-135V~
Frequency	50/60Hz	50/60Hz
Consumption	5VA	5VA

#### Output supply

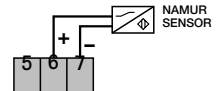
<b>DC output supply</b>	
Output voltage	DC 22...25V
Output current max.	100mA



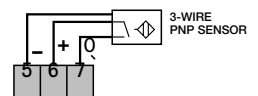
#### Triggering

##### NAMUR sensor

Not vaporized	output active
Vaporized	output inactive
Wire break	output inactive

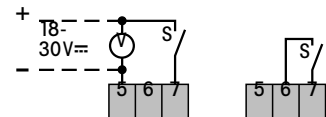


##### PNP three-wire sensor



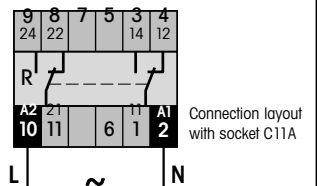
##### External power supply/contact

On-signal	DC +18...+30V
Off-signal	DC -30...+7,5V
Triggering current	7 mA at DC 24V
Parallel load energy	100V 10ms/1Hz



#### Output circuit

Contact	$\mu$ 2 x U
Contact material	AgCdO/AgNi
Switching voltage	12-250V
Switching current	5A
Switch rating	1250VA, ...250W
Switching cycle mechanical	$2 \times 10^7$
Switching cycle electrical	$8 \times 10^4 / 5A, 220V$
Triggering delay time	30...50ms
Releasing time	20...30ms
Switching frequency	$\leq 12\text{Hz}$



#### General technical data

Range of temperature $T_{\text{operation}}$	-25...+60° C
Range of temperature $T_{\text{stock}}$	-40...+85° C
Galvanic isolation	> 2kV (triggering to supply and output) > 2kV (supply to triggering and output)
Standards/instructions	CE; IEC 571, 255-4; EN 50082-2, 50081-1, 60065

#### Order no.

<b>Amplifier relay</b>	<b>SFR1/AC 220-240V</b>	<b>SFR1/AC 110-120V</b>
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