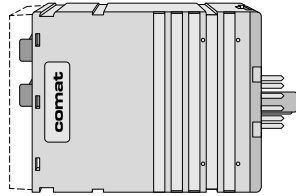
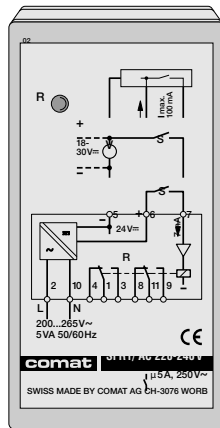


Amplifier relay SFR1



WHD(mm): 38x72x92 (+9)



SFR1



Kühn Controls AG
Vertriebsbüro Deutschland
Gräfenhäuser Str. 14
D-75305 Neuenbürg
Tel.: +49- (0)7082-940000
Fax: +49- (0)7082-940001
eMail: sales@kuehn-controls.de
www.multicomat.net



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

Output supply

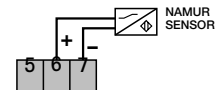
DC output supply	
Output voltage	DC 22 ... 25V
Output current max.	100mA



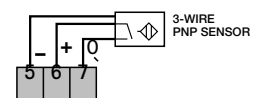
Triggering

NAMUR sensor

Not vaporized	output active
Vaporized	output inactive
Wire break	output inactive

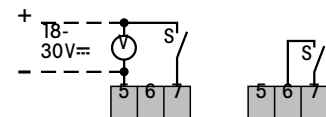


PNP three-wire sensor



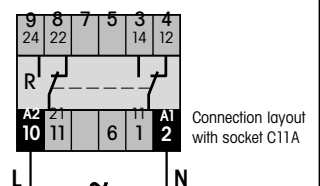
External power supply/contact

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	μ 2 x U
Contact material	AgCdO/AgNi
Switching voltage	12-250V
Switching current	5 A
Switch rating	1250VA, ...250W
Switching cycle mechanical	2×10^7
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_{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.

Amplifier relay	SFR1/AC 220-240 V	SFR1/AC 110-120 V
------------------------	--------------------------	--------------------------