

Technical information

Relay module RMF1

for flame detectors series KLC und IFx1



1 | Description

The RMF relay module for flame detectors converts the output signal of a flame detector of the KLC and IFx1 series with open-collector output into a isolated relay contact with higher switching capacity. In addition, its internal fuse in the L1 (or 24V=) line protects itself and the connected flame detector. The RMF indicates its own functional readiness by a green LED and the switching status of the internal flame relay by a yellow LED.

2 | Safety Instruction

The relay module RMF is a safety component and must therefore not be modified or misused! In the event of a fall, impact, humidity, moisture or other influences that could damage the flame detector, the unit must be replaced even if there is no visible damage! Repairs are not permitted!

Before starting any work, the system must be disconnected from the power supply. Before initial commissioning or when replacing the unit, the electrical wiring must be checked!

The RMF may only be operated when mounted in a control cabinet or a protective housing. This technical information provides an overview of the technical data of the RMF, its application, installation and handling as well as ordering data and accessories. Only the original operating instructions of the RMF in their currently valid version are binding.

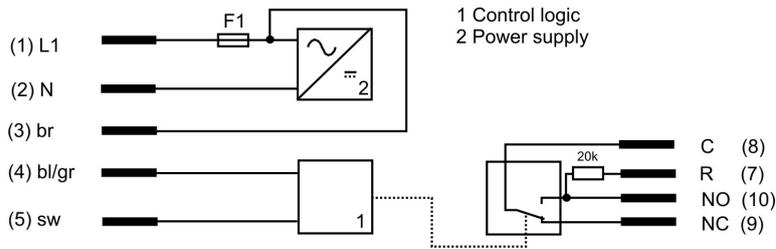
If you are unsure about the use of this flame detector, please contact or call the manufacturer or authorised distributor.

3 | Technical data

Operating voltage	230/240 V AC, 50 – 60 Hz 120 V AC, 50 – 60 Hz (optional) 24 V DC (optional)
Current consumption	AC max. 15 mA DC max. 60 mA
Relay data	VDE 0110, Class C max. 250 V Switching voltage max. 1 A Switching current max. 250 VA Switching capacity
Reaction times	Switch-on time max. 20 ms Switch-off time max. 20 ms
Operating temperature range	-20 °C to +60 °C
Humidity	max. 95% r. h., no condensation permissible
Electrical connection	Screw connection
Mounting location	Switch cabinet or protective housing with the protection class corresponding to the place of use
Mounting type	TS35 (mounting rail, 35 mm)
max. cable length	RMF to KLC/IFC < 10 m
Protection class	IP 20
Protection class	II
Weight	approx. 0,09 kg
Dimensions	Length 90 mm Height 36 mm Width 58 mm

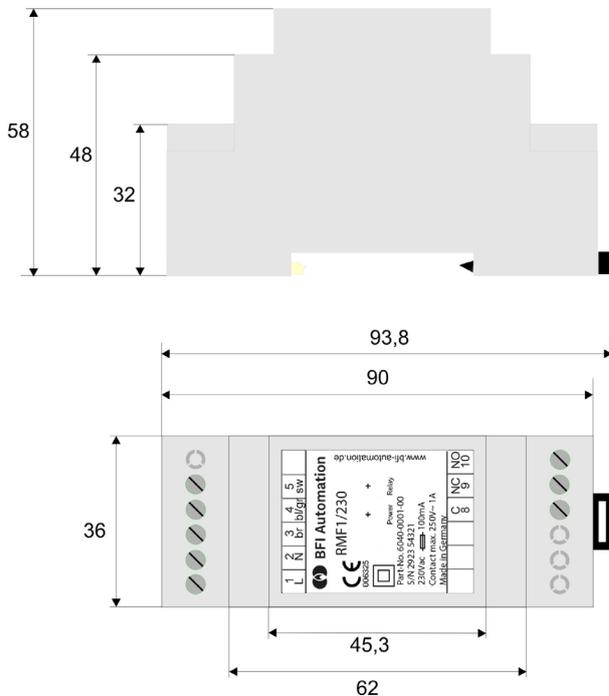
4 | Block diagram RMF

RMF



5 | Dimensions

All dimensions in mm



6 | Connection diagram RMF

Attention! The connection diagram differs from the successor model RMF1.1! Failure to observe this will result in immediate failure of the flame monitoring system.

	PIN	Assignment	External connection	colour, Flame detector
	1	L1 or +24V DC	L1 or +24V DC	(br)
	2	N or 0V DC	N or 0V DC	(bl)
	3	L1-connection, outgoing	L1-connection, Flame detector	brown
	4	N-connection, outgoing	N-connection, outgoing	blue oder grey
	5	Switching output Flame detector	Signal output Flame detector	black
	8	C	Switching voltage input	-
	9	NC	Normally closed contact	-
	10	NO	Normally open contact	-

9 | Overview of the available relay modules

Article	Version	Article number
RMF 230V AC	230 V AC-applications	6040-0001-00
RMF 120V AC	Für 120V-applications	6040-0001-01
RMF 24V DC	Für 24V DC-applications	6040-0001-20

Disposal information

The relay module is equipped with electrical and electronic components and must be disposed separate from household waste. Follow the local and actual regulations for waste disposal.

