BFI Automation

Technical Information

Flame simulation unit TG 10

Test device for axially aligned VIS/IR
Flame monitoring devices

for flame detectors KLC 20/21 and KLC 2002

1 | Description

The flame simulation unit TG 10 enables the functional testing of all flame scanners and detectors with a spectral sensitivity between 500 and 900 nm with an axial alignment to the flame axis and a collar diameter of 14 mm. The TG 10 was specially developed for flame monitoring devices with a DC frequency detection. The flame simulation is designed in such a way that a light with a constantly changing frequency impinges on the flame detector. Light with a constant frequency is used to check the DC frequency detection.

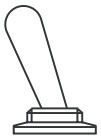
2 | Commissioning

For commissioning, insert a 9 V block battery into the battery compartment. The test item is inserted into the 14 mm hole and the tests are started with the toggle switch.

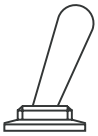
3 | Test procedure

Light OFF
LED on the KLC 20/21/2002 flashes continuously.

Two tests can be done:



modulated light ON
Flame is simulated. Flame detector must signal flame. LED on the KLC 20/21/2002 should light up continuously.



Light with constant frequency ON
Artificial light is simulated. LED on KLC 20/21/2002 must first light up constantly and then flash. This function is optional depending on the unit type. Please refer to the corresponding technical document!

4 | Technical data

Operating voltage	9 V block battery
Suitable for	KLC 20, KLC 21, KLC 2002
Operating temperature range	+ 15 °C bis + 45 °C
Moisture	max. 95 % r. F., no condensation permitted
Protection class	IP 20
Weight	approx. 0,029 kg
Dimensions	Lenght: 90 mm Height: 30 mm Width: 168 mm

5 | Ordering data

Flame simulation unit TG 10	6030-0020-01

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Disposal information

The flame simulation unit TG 10 is equipped with electrical and electronic components and must be disposed of separately from household waste. Observe the local and current regulations for waste disposal.

BFI Automation GmbH
Ruegenstr. 7
42579 Heiligenhaus . Germany
T +49 2056 989 46-0
info@bfi-automation.de
www.bfi-automation.de