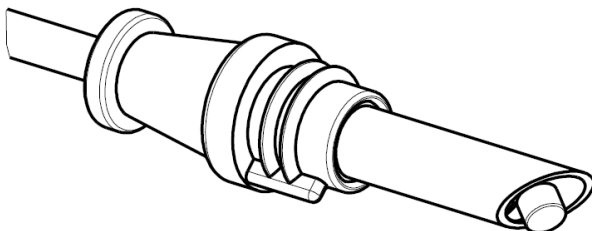
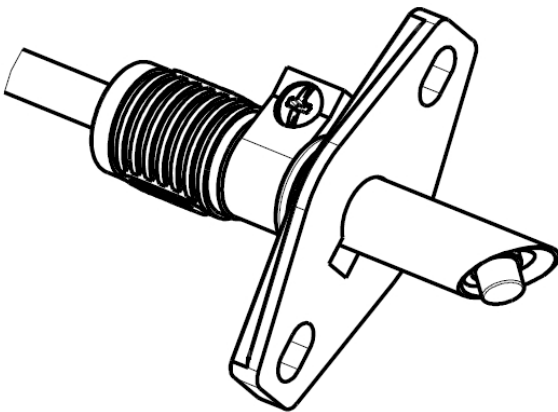


PHOTOTRANSISTORS

FT11, FT13

FLAME SENSORS FOR OIL OR BIOMASS BURNERS



Introduction

Flame detection in oil burners occurs by means of sensors detecting the presence of flame through an electrical signal, which can be used by ignition and control devices.

FTxx use a phototransistor since use the light generated by the flame and are in compliance with the new directive RoHS 2011/65/EU.

Description

These sensors, originally used for detecting the flame generated by oil burners, are also suitable for BIOMASS burners (pellets, wood, seeds, etc). The sensing element actually changes its current as a function of the incident light and this property is exploited to detect the presence of flame in the burner.

Brahma phototransistors are available in two models, FT11 and FT13, which are distinguished by a different case.

These sensors have been developed to replace previous photocells FCxx.

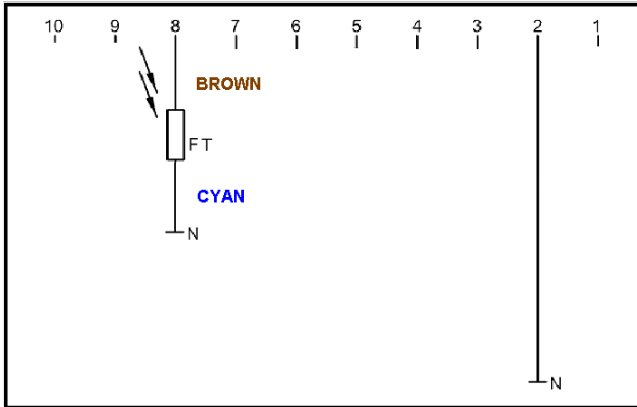
FTxx can be coupled only to Brahma control units prearranged for use with the old photocells. In this regard please refer to Table 2 of compatibility in this document and to the wiring diagrams.

Fig.1 shows the phototransistor type FT11: the oblique position of the sensing element allows for excellent sensitivity both if the light source is frontal and lateral. The same construction principle characterizes also the FT13 shown in Fig. 2.

The connection cable has a standard length of 620mm and the operating temperature range must be strictly between -20 °C and + 70 °C.

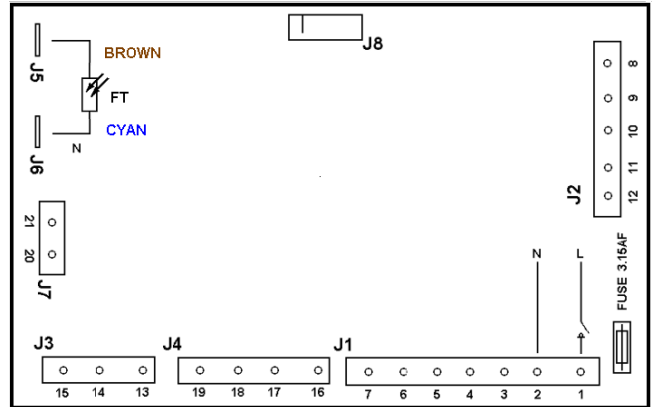
WIRING DIAGRAMS

EUROOIL SERIES



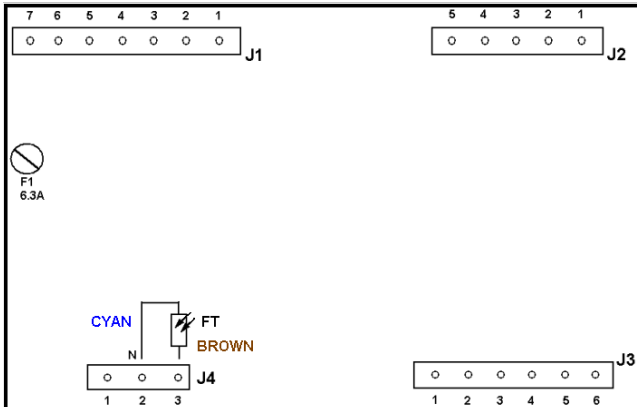
TYPE VM44O VM45O

DIGITAL MICROFLAT "N" AND NEW DIGITAL MICROFLAT SERIES



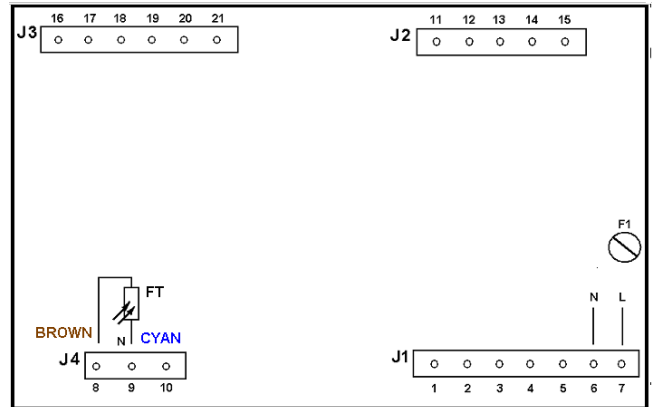
TYPE NDTMxxO DTMNxxO

KOMPACT SERIES (TGRx)



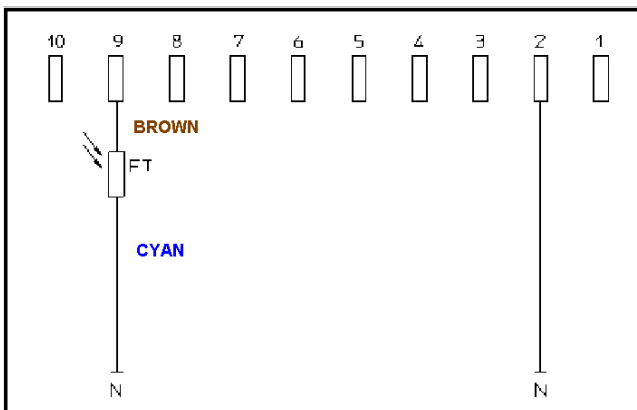
TYPE TGRx

KOMPACT SERIES (TGRD)

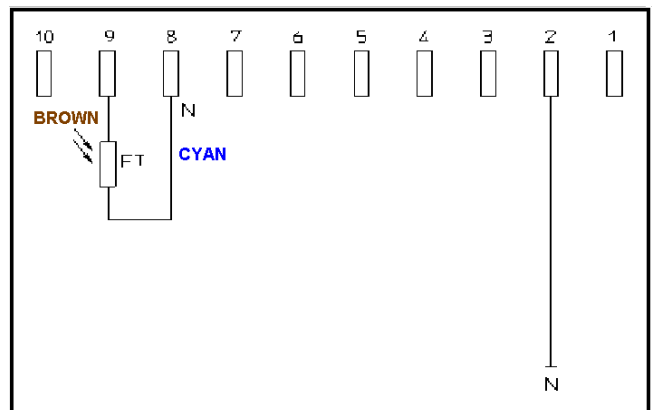


TYPE TGRD7x TGRD9x

EUROOIL CONTROLS SERIES 10



TYPE GR1 GR2 GR1/Z OR3/B



TYPE OR1 OR1/Z OR2

ATTENZIONE -> Company Brahma S.p.A. takes no responsibility for any damage resulting from Customer tampering with the product.

2016/02/09 Subject to amendments without notice