

Functional description of the AFB-TM 1

The AFB-TM 1 is a part of the AFB system. The extension module has two terminals, one as low voltage terminal and the second as power switch terminal. The supply voltage is connected to the +9V and 0V terminals. The input S is used for a signal from the AFB-TD IIR detector. Because of the unknown state at the signal S immediately after a start of the system, the AFB-TM 1 includes soft start function. AFB-TM 1 doesn't respond to any of the S signal state during the start period. The AFB-TM 1 is ready after the light up of the green LED -power signalization. When the AFB-TD IIR goes into the alarm, the S signal goes low and the AFB-TM 1 shorts the relay contacts NO and COM at the AFB-TM 1's power terminal.



Technical specification:

Type:	AFB-TM 1	
Compliance :	EN 60730-1: 2001; A11; A1; A12; A13; A14; A15 EN 61000-6-3: 2007 EN 61000-6-2: 2006 EN 50130-4: 1997; A1; A2	
Power supply:	9V DC, max. 3.5mA (normal condition), max. 32.3 mA (ALARM condition)	
Signal input S	max. 30 mA DC (if S is shorted to 0V)	
Terminal specification:	NO and COM	Voltage 230V input
	+9V	DC power supply voltage for the detector
	0V	0V DC
	S	Detector signal input - connecting to 0V in ALARM by stove sensor is assumed, the max current is less than 30mA
Indication:	POWER	When AFB-TM 1 is ready the green LED is lighting
Temperature:	-10 degrees C to +50 degrees C	
Humidity:	max, 95% RH without a condensation	
Dimensions:	L=90mm, W=17.6mm, H=58mm (1M of the DIN Module Box)	
Ingress protection level:	IP-40, (terminals IP-20)	

Parameters:

- VPS - Power Supply voltage
VS - S input voltage
IO - Quiescent current
IS - Operational current
tr - Start time delay
VL - Load voltage
IL - Load current (relay contacts)

	Min	Nom	max
VPS	7,5 V	9 V	13,5 V
VS	0 V	-	VPS
Io	2,8 mA	3,5 mA	6 mA
Is	25,3 mA	32,3 mA	50 mA
tr	30 s	55 s	70 s
VL	-	-	250VAC
	-	-	30VDC
IL	-	-	5A

