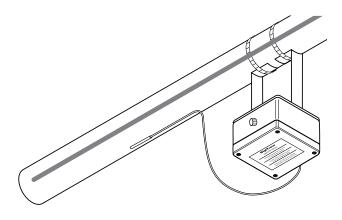


Raychem ETS-05



EXECUTE: SURFACE SENSING ELECTRONIC THERMOSTAT



PRODUCT OVERVIEW

The Raychem ETS-05 electronic surface sensing thermostat provides accurate temperature control for heating cables. The ETS-05 is available in two versions. The ETS-05-L2-E is for temperatures up to 199°C, while the ETS-05-H2-E can be used for temperatures up to 499°C. The maximum nominal load is 32 A for both thermostats. Temperature setting is accurate via digital rotary switches inside the enclosure.

The ETS-05 has a LED indicator which indicates the status of the thermostat (powered on/off), the status of the heat-tracing cable (powered on/off) and the status of the sensor. In case of sensor failure the thermostat can switch to an on or off state, depending upon the users requirement.

PRODUCT CHARACTERISTICS

	ETS-05-L2-E	ETS-05-H2-E		
Application	Surface sensing	Surface sensing		
Area of use	Hazardous area: Zone 1 or Zone	Hazardous area: Zone 1 or Zone 2 (Gas) or Zone 21 or Zone 22 (Dust) Ordinary		
APPROVALS CERTIFICATION				
	Raychem – ETS-05 Electronic Thermostat (a) II 2(1)G II 2D Ex e ia mb (Ga) IIC T5 Gb Ex tb IIIC T100°C Db Ta-40 to +60°C Supply = 99-121V (ETS-05-x1-x) or 195-230V (ETS-05-x2-x) Maximum switched current 32A Resistive IECEx BAS 13.0071 Baseefa13ATEX0137 Um=253V Max. Current = 0.5A Prospective short circuit current 1500A			
	TC RU C-BE.M			



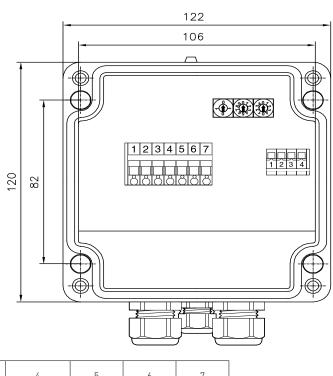
Ex e mb ia [Ga] IIC T5 Gb Ex tb IIIC T100°C Db IP66

PRODUCT SPECIFICATION

		·	
Temperature setpoint range	0°C to 199°C	0°C to 499°C	
Temperature measurement range	-55°C to 260°C	–55°C to 585°C	
Maximum sensor lead resistance	20 Ohm	20 Ohm	
Ingress protection	IP66	IP66	
Switching accuracy	±1 K at 5°C	±1 K at 5°C, 2°C at 499°C	
Switching differential (Hysteresis)	≈ 3°C	≈ 3°C	
Output relay	Single Pole change over type (SPST)	Single Pole change over type (SPST)	
Switching capacity	32 A resistive load	32 A resistive load	
Ambient temperature range	-40°C to + 60°C	-40°C to + 60°C	
Supply voltage	230 V +10% / -15% 50/60 Hz	230 V +10% / -15% 50/60 Hz	
Internal power consumption	3 VA	3 VA	
Terminal size	max. 6 mm²	max. 6 mm²	
Cable entries	2 x M25: 1 x M25 gland for power cable in 1 x M25 rain plug for heating cable out	2 x M25: 1 x M25 gland for power cable in 1 x M25 rain plug for heating cable out	

Sensor LED STATUS INDICATIONS	M16 gland with 3 wire PT100 flexible sensor, 2 m long	M16 gland with 3 wire PT100, stainless steel sensor, 2 m long,	
	Green: ETS-05 powered on, heat-tracing cable off	Green: ETS-05 powered on, heat-tracing cable off	
	Yellow: ETS-05 powered on, heat-tracing cable on	Yellow: ETS-05 powered on, heat-tracing cable on	
	Red flashing: Sensor failure - controller in fail safe mode	Red flashing: Sensor failure - controller in fail safe mode	

DIMENSIONS (IN MM)

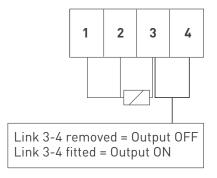


Power Terminals

1	2	3	4	5	6	7
Line Out	Neutral Out	Neutral Supply	230V Supply	Earth	Earth	Earth

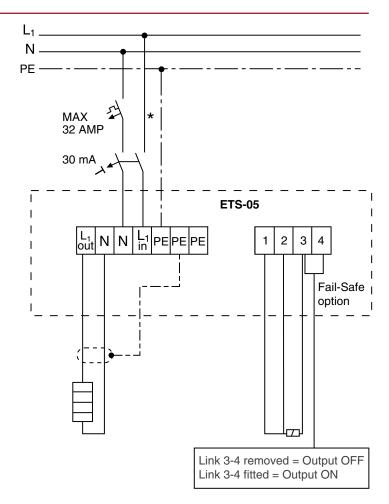
Terminals 2 and 3 are joined electrically Terminals 5, 6 and 7 are joined electrically

Sensor/Failure Mode Select Terminals



Terminals 1 to 3 allow for the connection of a three wire PT100 sensor.

Terminals 3 to 4 allow the user to select the default heating status on sensor error. Without a link fitted the heating will turn OFF if a sensor error is detected (default) With a link fitted the heating will turn ON if a sensor error is detected



* Circuit breaker configurations may vary according to local standards/requirements

MOUNTING METHOD

SB-111, SB-130 or surface mounting with 4 fixing holes on 106 x 82 mm centres

Support bracket SB-100, SB-101, SB-110, Support bracket SB-100, or SB-101, SB-110, SB-111, SB-130 or surface mounting with 4 fixing holes on 106 x 82 mm centres

ORDERING DETAILS

Product Name	ETS-05-L2-E	ETS-05-H2-E
Part number	1244-014367	1244-014368