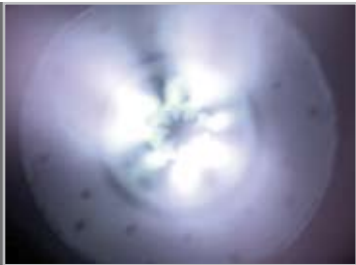Flame detection by pyrometry

DARKSCAN TC0401AC

The only reliable solution for monitoring transparent flames (acid gas)
Continuous monitoring of the presence or absence of flame
An «ALL IN ONE» self-checking design for easy installation
Flame level display and parameter settings on the detector

→ Designed for safety,
Chosen for its reliability.

Developed by our engineers to ensure the safety of your burners, the PACKSCAN flame detectors are available in two versions, standard or ATEX. The DARKSCAN, based on the pyrometric measure between two points in a flame, is part of our complete range of detectors using principles ranging from the measuring of UV rays to IR flicker.

GENERAL CHARACTERISTICS	
Measuring principle	Differential temperature variation between 2 points of a flame
Power supply	24 V DC (+10%, -15%), 10 VA
Operating temperature	-20°C à +70°C (others as alternative)
Dimensions / Weight	360 x 130 mm / 4.8 Kg
Casing	Aluminium
Digital output	2 contact relays RT 250 V-2 A
Analogue output	4-20 mA, 300 Ohms max
Communication port	RS 485
Sweeping air flow rate	5 Nm³/h
Sweeping air connector	3/8'' NPT
Warranty	1 year
CABLE	
Standard length	2.5 m
Outer diameter	11 mm
Cross-section	9 x 0.75 mm² + 4 x 0.34 mm²
Admissable temperature range	-40°C to +180°C

→ Options / Services

• Infra-red RC1 remote for parameter setting
  Ⓔ II 1 G Ex ia IIC T3 ou T4 (N° LCIE 05 ATEX 6014 X)

• Flanged swivel mount

• Thermal insulator

• Junction box (ATEX version available)

• Ball valve for sight-tube shut-off

• Electrical supply unit (230VAC / 24VCC)

• Commissioning assistance

• Maintenance contract

• Optional 3 year warranty

→ Certifications

• Protection rating (EN 60529): IP 65

• Explosion-proof protection (EN 60079-0/EN 60079-1):
  Ⓔ II 2 G Ex d IIC T6(N° LCIE 03 ATEX 6347 X)

• Standard EN298: certification in progress (TUV)

• Safety integrity level (IEC/EN 61508): SIL 2 certification in progress

$C \in$ Ⓔx   BUREAU VERITAS Functional Safety IEC 61508

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