

Troxex TX6363

Intrinsically Safe Infrared Gas Detector Specification

CORE DESCRIPTION

The Trolex TX6363 is an intrinsically safe infrared gas detector designed for continuous measurement of hydrocarbon gases (such as methane) or carbon dioxide in hazardous mining and industrial applications. Utilizing optical NDIR technology, it offers immunity to sensor poisoning and operates reliably even in zero-oxygen environments. Before deployment, confirm the targeted gas variant (CH4 or CO2), measuring range (e.g. 0-5% v/v CH4 or 0-100% v/v), voltage input, output signal type, and ATEX/IECEX safety barrier requirements.

TECHNICAL SPECIFICATIONS

Parameter Name	Specification Value	Unit
Sensing technology	Non-Dispersive Infrared (NDIR)	—
Target gases	Hydrocarbons (Methane CH4) or Carbon Dioxide (CO2)	—
Protection type	Intrinsically Safe (Ex ia)	—
Measuring range	0-5% v/v CH4 / 0-100% v/v CH4 / 0-5% v/v CO2	—
Output signal	0.4-2 V / 4-20 mA / RS485 Modbus	—
Supply voltage	7.5 to 16.5	VDC
Operating temperature range	-20 to 50	°C
Ingress protection	IP65	—
Housing material	High-impact molded polymer	—
Hazardous area rating	ATEX / IECEx certified	—