

CT 3005 O-instructions for use

Description:

Automatic optical smoke sensor. The sensor is designed together with the SDB 3000 EZS terminal block for connection to EZS systems. Contains 2 optical chambers.



Usage:

General use for reliable detection of visible smoke in a guarded area. Checking sensor malfunctions, dusting the chamber, setting the working point. Two-color LED for sensor status indication.

Evaluation of the status of the sensor by a microprocessor.
Relay output for EZS (in terminal block SDB 3000 EZS)
The sensor is reset by disconnecting the power supply for 4-5 seconds.

Technical parameters

Power supply	terminal block SDB 3000 EZS 9-15V, only sensor 9-33VDC
Current consumption of the sensor	100 µA at rest / max. 20mA in alarm (red LED)
Terminal block current consumption	30 mA at rest / 1 mA in alarm
Output	SLP relay 30V/0.5A 1x changeover contact
Sensitivity (chamber)	0.15 dBm
Coverage	IP40
Environment	- 10°C to 60°C max. 95% humidity, flow<20m/s
Dimensions	47 x Ø 110 mm (height x diameter)
Design and color	Design - "flat, glass", color white, silver, black
Corresponding standards	EN 54-7
CDP certification	0786-CPD-20957

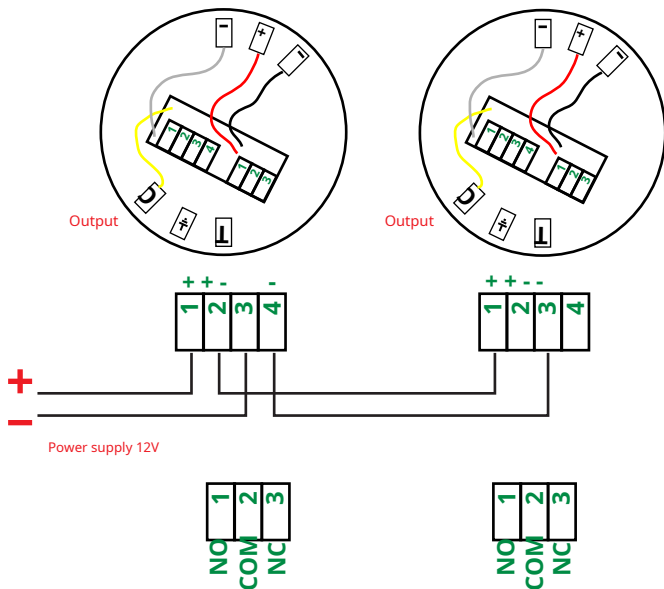
The CT 3005 sensor is a standard sensor of the collective EPS system. The output for EZS is implemented in the SDB 3000 EZS terminal block.

We install the detector in the terminal box by turning it until it fits into the cutouts, and by turning it by about 10°, it snaps onto the terminals. The recommended types of terminal blocks are:

Name	code	Description
SDB 3000 EZS - white	1012-055	The sockets are intended for fixing detectors for the installation of the sensor in the EZS system. Contains terminals for power connection and relay output for EMS loop. Balancing resistance to the control panel is not part of the delivery.
SDB 3000 EZS - silver	1012-056	
SDB 3000 EZS - black	1012-057	

Recommendation for design and installation

These sensors can be used to indicate a fire-dangerous situation in EMS systems. Before mounting, the position of the sensor is checked to see if it meets the requirements of the project. The sensor is placed on the ceiling in such a way that it is freely accessible for regular checks and that nothing in the surroundings (ventilation, air conditioning, lighting, curtains) interferes with its proper function. It reacts to visible smoke and is normally used to control approx. 60m²



Connecting the terminal block for CT sensors

Any sensor from the CT series can be used in the terminal block

When the sensor is activated, a red LED lights up on it.

Jumper disconnected-The socket is self-resetting

Jumper connected-connected until power failure

RESET sensors

These sensors are primarily intended for non-addressable EPS systems and remain in the reporting state after activation (a red LED lights up on the sensor). Resting the sensor is performed by briefly interrupting the power supply for approx. 4-5 seconds. This function is provided by the electronics in the socket (it can be disabled by inserting a jumper).

Note:

The alarm relay switching logic in the SDB 3000 EZS socket responds with the EZS system (sensor in idle state - relay is switched on, opens when activated). Likewise, when the sensor is removed from the base, the relay loses power and opens.