

Finland

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx EESF 22.0047X	Page 1 of	3 <u>Certificate history:</u>
Status:	Current	Issue No:	0
Date of Issue:	2023-09-18		
Applicant:	Sintrol Oy Ruosilantie 15 FI-00390 Helsinki Finland		
Equipment:	Dust Detectors S101 Ex and S103 Ex		
Optional accessory:	n/a		
Type of Protection:	Dust Tight "tc"		
Marking:	Ex tc IIIC T80 °C Dc		
	-30 °C ≤ Tamb +60 °C		
Approved for issue or Certification Body:	behalf of the IECEx J	enni Hirvelä	
Position:	S	enior Expert	
Signature: (for printed version)			
Date: (for printed version)	24	023-09-18	
			国家科学家 会国
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THECEX		IECEx Certificate of Conformity	
Certificate No.:	IECEx EESF 22.0047X	Page 2 of 3	
Date of issue:	2023-09-18	Issue No: 0	
Manufacturer: Manufacturing locations:	Sintrol Oy Ruosilantie 15 FI-00390 Helsinki Finland Sintrol Oy Ruosilantie 15 FI-00390 Helsinki Finland		

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017Explosive atmospheres - Part 0: Equipment - General requirementsEdition:7.0Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

FI/EESF/ExTR22.0048/00

Quality Assessment Report:

FI/EESF/QAR19.0013/02



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Dust Detectors S101 Ex and S103 Ex are intended to measure the concentration of dust particles inside a pipe or duct for detecting filter leaks or failures in cyclonic separation in various industrial applications. The operating principle is based on inductive electrification technology, where particles interacting with an isolated probe induce a signal that is transmitted to the monitoring system.

Communication interface:

RS-485 / Modbus.

Output signals:

S101 Ex: 2 × adjustable solid-state relays, max. 30 V DC / 200 mA S103 Ex: Active and isolated 4...20 mA output

Ratings:

 $U_N = 24 V_{DC} (\pm 10\%)$

P_N = 1 W

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Allowed ambient temperature range is -30 °C \leq T_{amb} \leq +60 °C
- 2. Allowed maximum process temperature for Dust Detector S101 Ex or S103 Ex is 200 °C
- 3. The enclosure shall not be subjected to prolific charge generating mechanisms