

44809 Bochum

Germany

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 BVS 17.0089	Page 1 of 4	Certificate history:		
Status:	Current	Issue No: 2	Issue 1 (2020-12-18) Issue 0 (2017-11-21)		
Date of Issue:	2021-12-22				
Applicant:	Endress+Hauser SE+Co. KG Hauptstraße 1 79689 Maulburg Germany				
Equipment:	Capacitive level limit switch Minicap type FTC260				
Optional accessory:					
Type of Protection:	Protection by Enclosure "t"				
Marking:	Ex ta/tb IIIC T ₂₀₀ 105°C Da/Db				
Approved for issue of	on behalf of the IECEx	Dr Michael Wittler			
Position:		Deputy Head of Certification Body			
Signature: (for printed version)		little			
Date:		22.12.2021			
 This certificate and This certificate is no The Status and auth 	schedule may only be reproduced in full. t transferable and remains the property of the issuir nenticity of this certificate may be verified by visiting	ng body. www.iecex.com or use of this QR Code.			
Certificate issued DEKRA Testing Certification Bo	d by: and Certification GmbH ody sse 9		DEKRA		

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On the safe side.



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Date of issue:	2021-12-22	Issue No: 2			
Manufacturer:	Endress+Hauser SE+Co. KG Hauptstraße 1 79689 Maulburg Germany				
Additional manufacturing locations:					
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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements				
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"				
	This Certificate does not indicate compliance with safety and other than those expressly included in the Standa	performance requirements rds 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:

DE/BVS/ExTR17.0085/02

Quality Assessment Report:

DE/TUN/QAR06.0003/09



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The Capacitive Point Level Switch MINICAP Type FTC260-***** has two electrodes forming a capacitor with a defined low capacitance when the probe is uncovered.

As soon as some material covers the probe a parallel circuit consisting of a larger capacitance and the resistance of the material (impedance) a signal is activated.

The Capacitive Point Level Switch consists of an aluminium electronics enclosure (F34) situated in Zone 21 and a plastic sensor located in Zone 20.

Parameters:

See Annex

Thermal limits

See Annex

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Change from EPL Da/Dc to Da/Db

Annex:

BVS_17_0089_Endress_Hauser_Annex_issue2.pdf



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Parameters							
Electrical parameters							
Type FTC260-**4** (AC/DC-Version)							
	Maximum operating voltage or Current consumption Relay circuit		AC 20253 V, 50/60 Hz DC 20 55 V max. 2 W AC 253 V / 4 A / 1000 VA				
	or or		DC 253 V / 0.2 A / 50 W DC 30 V / 4 A / 120 W				
Type FTC260-**2** (DC-Version)							
	Maximum operating voltage Current consumption		DC 10.845 V max. 1.5 W				
	Switch output (PNP) Current Switching capacity		max. 200 mA 9 W				
Thermal limits							
Permissible process temperature of the sensor (zone 20)		emperature 0)	-40 °C+ 80 °C				
Maximum surface temperature of the sensor (zone 20) at an ambient temperature of 80 °C			105 °C				
Maxim (zone	num surface ten 20) at an ambie	nperature of the sensor ent temperature of 40 °C	65 °C				
Permissible ambient temperature of the electronics housing (zone 22)		emperature sing (zone 22)	-40 °C+ 60 °C				
Maximum surface temperature of the sensor (zone 22) at an ambient temperature of 60 °C		nperature of the sensor ent temperature of 60 °C	90 °C				
Maximum surface temperature of the sensor (zone 22) at an ambient temperature of 40 °C		nperature of the sensor ent temperature of 40 °C	70 °C				