



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 EPS 20.0077X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-12-08
Applicant: **Liebherr Mischtechnik GmbH**
Im Elchgrund 12
Bad Schussenried 88427
Germany
Equipment: **Planarsensor type P78-E****
Optional accessory:
Type of Protection: **Protection by enclosure "t"**
Marking: Ex tb IIIC T85°C Db
Ex tc IIIC T85°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:

Ulrich Feike

Certification Manager

2021-12-08



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **Liebherr Mischtechnik GmbH**
Im Elchgrund 12
Bad Schussenried 88427
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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

DE/EPS/ExTR20.0075/00

Quality Assessment Report:

DE/EPS/QAR20.0013/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The planar sensor type P78-E is part of an independently operating humidity measurement system. The planar sensor is a so-called "intelligent sensor". This means that the built-in microprocessor enables complete problem solving in one component as well as extended functionality. The sensor may be installed and operated in potentially explosive areas of zones 21/22.

Electrical Data:

nominal Voltage 8...30 V

nominal Power 0.4 VA

SPECIFIC CONDITIONS OF USE: YES as shown below:

Rated ambient temperature range: $+5\text{ °C} \leq T_a \leq +75\text{ °C}$

The enclosure may only be opened if no explosive atmosphere is present.

The device must be connected either outside of the potentially explosive area or in a housing that corresponds to an ignition protection type in accordance with IEC 60079-0.