



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CML 17.0051U

Issue No: 1

Certificate history:

Issue No. 1 (2018-05-22)

Issue No. 0 (2017-06-01)

Status: **Current**

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Date of Issue: **2018-05-22**

Applicant: **Cortem S.p.A.**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
Italy

Equipment: **Signal and Control Operators, series M-0... for dust atmospheres**

*Optional accessory:*

Type of Protection: **Ex tb**

Marking:  
**Ex tb IIIC Db**

*Approved for issue on behalf of the IECEx  
Certification Body:*

A C Smith

*Position:*

Technical Operations Director

*Signature:  
(for printed version)*

A handwritten signature in black ink, appearing to read 'A C Smith', is written over a horizontal line.

*Date:*

**2018-05-22**

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 the Official IECEx Website.

Certificate issued by:

Certification Management Limited  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Manufacturer: **Cortem S.p.A.**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
**Italy**

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0

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

*This Certificate does not indicate compliance with electrical 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:

GB/CML/ExTR17.0084/00 GB/CML/ExTR18.0113/00

### Quality Assessment Report:

IT/CES/QAR06.0002/11



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Signal and Control Operators, series M-0... for dust atmospheres.

Refer to Annex for full description and the Schedule of Limitations.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

## Variation 1

This variation introduces the following modification to the Signal and Control Operators, series M-0... for dust atmospheres:

1. The removal of the electrical ratings from the signal and control operator descriptions

## Annex:

IECEX CML 17.0051U Annex Issue 1.pdf

**Annexe to:** IECEx CML 17.0051U, Issue 1  
**Applicant:** Cortem S.p.A.  
**Apparatus:** Signal and Control Operators, series M-0...  
for dust atmospheres



## Product Description

The Signal and Control Operators, series M-0... for dust are a range of component certified command and signalling actuators comprising the following models:

Model number	Function
M-0634	Operator with handle for switches, MCCB's and MCB's
M-0635	Selector
M-0636	Signalling light
M-0637	Illuminated push button
M-0638	Emergency push button
M-0639	Push button

All types are intended to be mounted on the wall of a suitably certified enclosure and incorporated into equipment requiring type of protection "tb" for use in area requiring Equipment Protection Level "Db", with a service temperature range of -40°C to +90°C.

### M-0634

The M-0634 is an operator handle for use with rotary actuated devices. It is constructed with an aluminium alloy or stainless steel body and handle. The rear of the operator is an M16x1.5 or M20x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing through moving parts and at the interface is achieved with silicone O-ring seal.

### M-0635

The M-0635 is a selector switch operator for use with rotary actuated devices. It is constructed with an aluminium alloy or stainless steel body and knob. The rear of the operator is an M32x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing through moving parts and at the interface is achieved with silicone O-ring seal.

### M-0636

The M-0636 is a signalling light lens for use with a lamp module. It is constructed with an aluminium alloy or stainless steel body and plastic lens which are threaded together with an M27x1 thread. The rear of the lens is an M32x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing at the interface is achieved with silicone O-ring seal.

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### **M-0637**

The M-0637 is an illuminated pushbutton operator for use with an illuminated pushbutton module. It is constructed with an aluminium alloy or stainless steel body and plastic lens which are threaded together with an M30x1 thread. The rear of the lens is an M32x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing through moving parts and at the interface is achieved with silicone O-ring seal.

### **M-0638**

The M-0638 is an emergency stop pushbutton for use with linear actuated devices. It is constructed with an aluminium alloy or stainless steel body and plastic mushroom head. The rear of the operator is an M32x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing through moving parts and at the interface is achieved with silicone O-ring seal. The emergency stop is pull-to-release type and is available with or without key release.

### **M-0639**

The M-0639 is a spring-return pushbutton for use with linear actuated devices. It is constructed with an aluminium alloy or stainless steel body and plastic cap head. The rear of the operator is an M32x1.5 metric threaded sleeve for mounting through an enclosure wall of thicknesses in the range of 1-10 mm. Retention in the wall is with the use of a locknut. Sealing through moving parts and at the interface is achieved with silicone O-ring seal.

## **Schedule of Limitations**

The following conditions relate to safe installation and/or use of the components:

- i. The rated service temperature range of the components is -40°C to +90°C.
- ii. The devices must be assembled on the cover or walls of suitably certified enclosures with suitable ingress protection.
- iii. The devices must be mounted on enclosure walls with a thickness between 1 mm and 10 mm and with hole diameters of 16.5 mm, 20.5 mm, or 32.5 mm, as applicable to the particular model.
- iv. When the devices are mounted on the electrical apparatus, the service temperature at the mounting location shall be established and this shall not exceed the service temperature range.

## **Variation 1**

This variation introduces the following modification to the Signal and Control Operators, series M-0... for dust atmospheres:

- i. The removal of the electrical ratings from the signal and control operator descriptions