

(1) EU-Type-Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



- (3) **Certificate Number** TÜV CY 24 ATEX 0206986 X
- (4) for the equipment: Flameproof cum Weatherproof limit switch Box
- (5) of the manufacturer: **Micro Pneumatics Pvt. Ltd**
- (6) Address: Plot 133 – 134 | Vasai Municipal Industrial Area, Umela Phata Papy, Vasai (W), Dist: Palghar, Maharashtra 401207, India.

Order number: 0206986

Date of issue: 2024-02-17

- (7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
- (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 24 0206986.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN 60079-1:2014**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:



II 2G Ex db IIC T6 Gb (For MP-PI-2M-FP-ATEX) IP 66
II 2G Ex db IIB T6 Gb (For MP-PI-3M-FP-ATEX) IP 66

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous



Accredited by CYS-CYSAB
Certificate No. C 004-2

TÜV CYPRUS (TÜV NORD) Ltd,
2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
Tel: +357 22 44 28 40 Fax: +357 22 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 24 ATEX 0206986 X

(15) Description of equipment

The MP-PI-2M-FP-ATEX and MP-PI-3M-FP-ATEX models Flameproof weatherproof limit switch boxes/enclosures are to be mounted onto valve actuators for position monitoring of industrial valves locally as well as remotely in control rooms by using mechanical micro switches or proximity sensors housed inside the enclosures. When the valve is operated, the operating rod rotates and switches inside the enclosure are operated through cams or through metal targets mounted onto the operating rod. MP-PI-2M-FP-ATEX and MP-PI-3M-FP-ATEX models switch boxes have an indicator cover on top of the enclosure which indicates the valve position locally by visual indication (Open / Close indication).

The enclosures are suitable for use in IIC for model MP-PI-2M-FP-ATEX and IIB for model MP-PI-3M-FP-ATEX and are marked accordingly (Ex db IIC T6 Gb or Ex db IIB T6 Gb).

The enclosures are manufactured in Aluminum Alloy LM6, with a minimum wall thickness of 3 mm and operating rod in either SS304. The enclosure (except flameproof joints) can also be painted with epoxy powder coating with a maximum thickness of 50 to 150 microns. The body and cover of the enclosure are secured together with the help of fasteners and a gasket which ensures ingress protection rating of IP 66. The gasket materials used in the enclosure can be Nitrile.

Ambient temperature range: -20°C to +40°C

Technical data:

Electrical ratings: 0.1A @48VDC /5A @ 230VAC/ 0.1A @ 125/250 VAC

Warning Labels:

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(16) Test documents are listed in the test report No. 24 0206986

(17) Special conditions for safe use

The property class of socket head screws (8 nos, M6 X 1 – 20mm long) used for securing body and cover of the enclosure shall be of property class A2-70.

The certification drawings MP-PI-2M-FP-ATEX Rev. 0 and MP-PI-3M-FP-ATEX Rev. 0 specifies the details of flameproof joints. The flameproof joints must not be repaired without consulting the manufacturer.

The enclosure must be mounted and installed as per the instructions provided in user manual MPPL/PI/IOM/ATEX/01 Rev. 00

Cable entry and blanking plugs devices to be used with the enclosure shall be suitable for operation in ambient temperature range of -20°C to +40°C. These devices shall meet explosion protection characteristics as per this certificate.

(18) Essential Health and Safety Requirements

This EU Type certificate covers the Essential Health and Safety Requirements related to the Directive 2014/34/EU.