Manual for QX0212 Illuminated Push Button

Purpose of this Instruction

Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.
Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.
These instructions give a brief summary of the most important safety measures. It supplements the corresponding regulations which the staff responsible must study.

SAFETY INSTRUCTIONS

Use the explosion-proof signal lamp with button module only for its intended purpose.
Explosion-proof signal lamp with button module are not suitable for Zone 0 hazardous areas!
Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.
No changes to the device impairing its explosion protection are permitted.
Use the explosion-proof signal lamp with button module only if they are clean and undamaged.
Any damage can invalidate the Ex-protection.
Observe the following during installation and operation:
National safety regulations;
National accident prevention regulations;
National installation regulations(e.g. IEC 60079-14);
Generally recognized technical regulations;
Safety guidelines in these operating instructions;
Characteristic values given on the explosion-proof signal lamp with button module.

Conformity to Standards

The explosion-proof signal lamp with button module.is designed manufacturedand tested in accordance with ISO 9001. The explosion-proof signal lamp with button module complies with the following regulations and standards:
IEC60079-0 : 2007 IEC60079-1 : 2007 IEC60079-7 : 2006
EN60079-0 : 2009 EN60079-1 : 2007 EN60079-7 : 2007

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Applicable scope

The series product is suitable for the industrial control circuit that the rated service voltage is AC250V or below, which can be used to control electromagnetic starter, contactor, relay and other electric circuit. It also can be used to indicate signal, forenotice signal, accident signal and other indicate signal in the electric circuit of telecommunication, electrical apparatus that the service voltage is AC/DC 12-240V

Technical Data

Ex mark: Ⓔx II 2G Ex de IIC Gb
Test certificate: IECEx EPS 11.0015 U
EPS 11 ATEX 1400 U
РОСС DE.ГБ05.В04173
Ambient temperature use: -55°C≤Ta≤60°C
Continuous Operating Temperature(COT): -55°C to 85°C
Degree of protection: IP66
Rated voltage of signal lamp : AC/DC 12 - 250V
Light source: LED
Light Power consumption: P_{max}<1W
Signal lamp electric life: One hundred thousand hours
Rated voltage/Rated current of button:AC 250V/10A
DC 24V/1A
Mechanical life:10^6switching cycles
(The flameproof gap will not exceed the designed gap and its explosion protection perfermance will not be changed when it is to be used in its mechanical life)
Connect type: Terminal 0.5 to 2.5mm2
Mechanical life of button: 300,000 times
Board front type mounting: May be held on mounting rails TS35x 7.5 or fixed with screws

Operation/Installation

Transport and storage in original packaging only . National safety and installations regulations and the generally accepted rules of engineering practice must be observed when operating this equipment.
The series of operation head is provided by the company to be used with the series module together.
For the sake of ensuring normal operation and safety of explosion-proof signal lamp with button module, user must abide by the following provisions.
The explosion-proof signal lamp with button module is suitable for use in hazardous areas, zones 1 and 2.

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The explosion-proof signal lamp with button module should be used under the following atmospheric condition£
The pressure is 80kPa(0.8bar)~110kPa(1.1bar)
The volume ratio of standard oxygen content is 21% air.

The product should be enclosed in explosion-proof enclosure which is fitted to the environment.
This series of products only can be used together with the operating head manufactured by us.
Proposed tightening screw torque : 1.1Nm
The module mounting should be firm and reliable.
Virtual connection is not allowed during the wiring.
During wiring, the creepage distance of bare current-carrying part should be >10mm, electric clearance should be >6mm.
The component wiring of board back cable type shall be connected with explosion-proof equipment in accordance with its applicable environment.

Maintenance

Observe the relevant national regulations for your country!
Only parts from our company that can be used to replace or maintain, and the operation should be carried out by professional electrician!
The following points must be checked during maintenance:
Compliance with permitted temperatures;
Check if there is any crack in the explosion-proof module;
Check if the product has been fixed reliably.
Check if the wiring is loose.
Check if the flame-proof joint is damaged.