



Product manual Z0201
Handleiding Z0201



INDEX ELEKTRO BV
Harregatplein 15
3214 VP Zuidland
Netherlands



T. +31(0)181 452120
<http://www.indexelektro.nl>
email info@indexelektro.nl

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Purpose of these instructions

- 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 must study.



SAFETY INSTRUCTIONS

- Use the explosion-proof control units only for its intended purpose.
- Explosion-proof control units 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 control units 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 control units.

Conformity to standards

The explosion-proof components are designed and manufactured according to standard of ISO 9001.
The explosion-proof components are conformity to the directive 94/9/EC, ATEX and the following standards:

IEC60079-0 : 2011	EN60079-0 : 2012
IEC60079-1 : 2014	EN60079-1 : 2014
IEC60079-7 : 2015	EN60079-7 : 2015

Applicable scope

Z0201 Series control units can be used in the industrie circuit of which rated working voltage is 400 VAC or below to control electrical installations

The series product can be used in zone 1, 2, 21 and zone 22.



Model and implication

explosion-proof switch module (2-Pole)

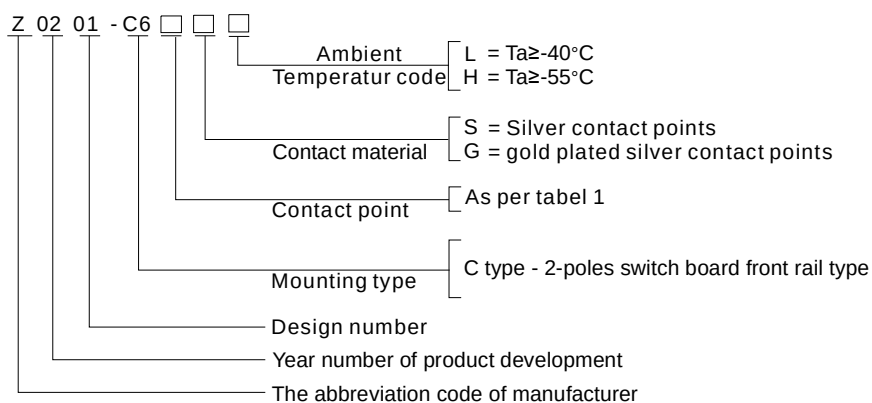
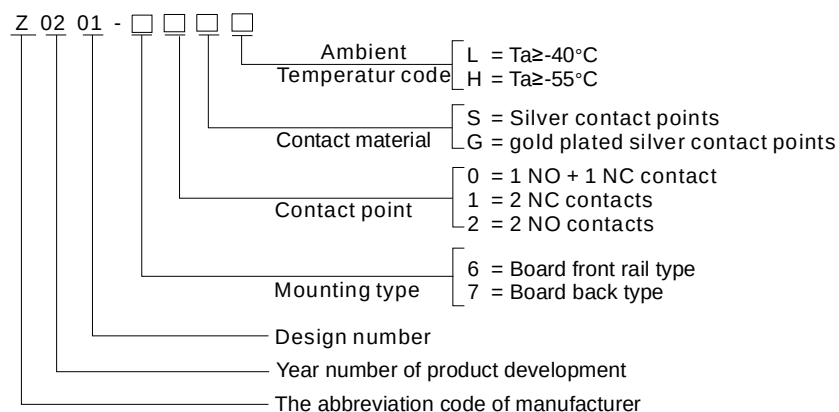


Table 1

Code	Contact point diagram	Code	Contact point diagram	Code	Contact point diagram
0		1		2	



Model and implication

explosion-proof switch module (4-Pole)

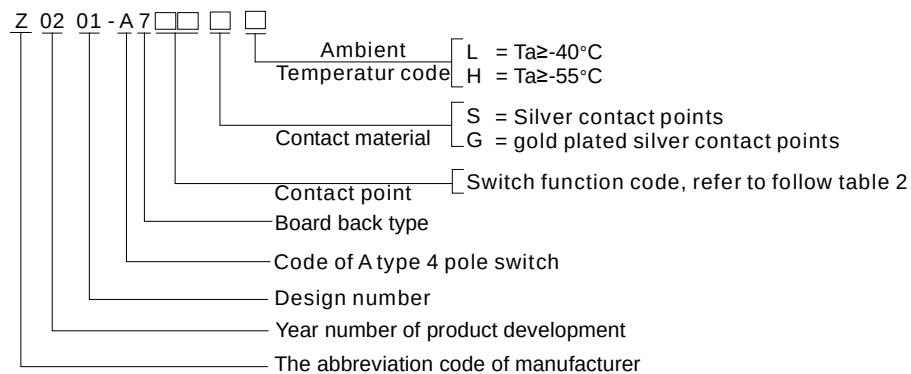
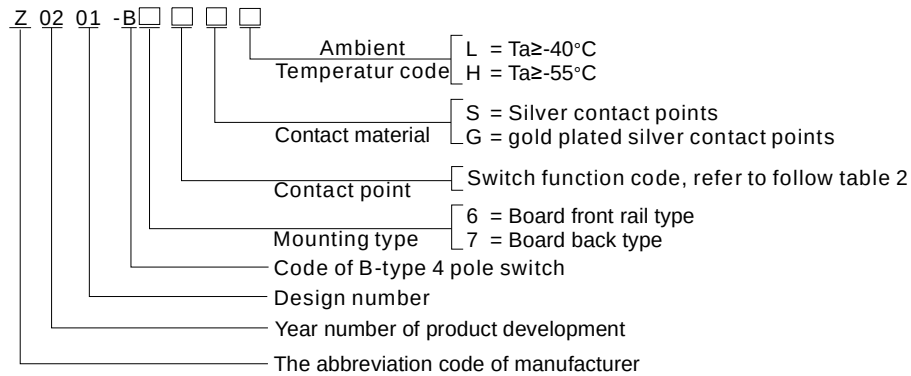


Table 2

Code	Functional diagram	Code	Functional diagram	Code	Functional diagram
50		51		52	
53		54			

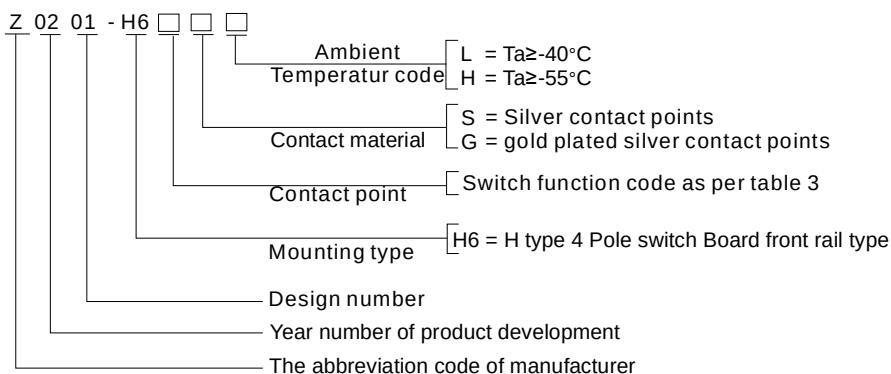


Table 3

Code	Functional diagram	Code	Functional diagram	Code	Functional diagram
01		02		03	
04		05		06	
07		08		09	
10		11		12	
13		14		18	
26		31		37	
46		50		56	
59		60		68	
74		98		99	



Technical data

Ex mark Ex II 2 G Ex db eb IIC Gb
 Test certificate Presafe 17ATEX 10063U
 Degree of protection IP20

Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
 $-55^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
 Service temperature: $-40^{\circ}\text{C} \leq T_a \leq +90^{\circ}\text{C}$
 $-55^{\circ}\text{C} \leq T_a \leq +90^{\circ}\text{C}$

Rated voltage / rated currents: AC 400V/16A DC 110V/1A

Rated power: max 1.0W (Unipolar) (Z0201-C6xx)

Rated frequency: 0 ~ 60Hz

Contact options - 2 pole types - 1NO+1NC, 2NC, 2NO / 4 pole types - 4xNO, 3xNO+1xNC, 2xNO+2xNC, 1xNO+3xNC, 4xNC.

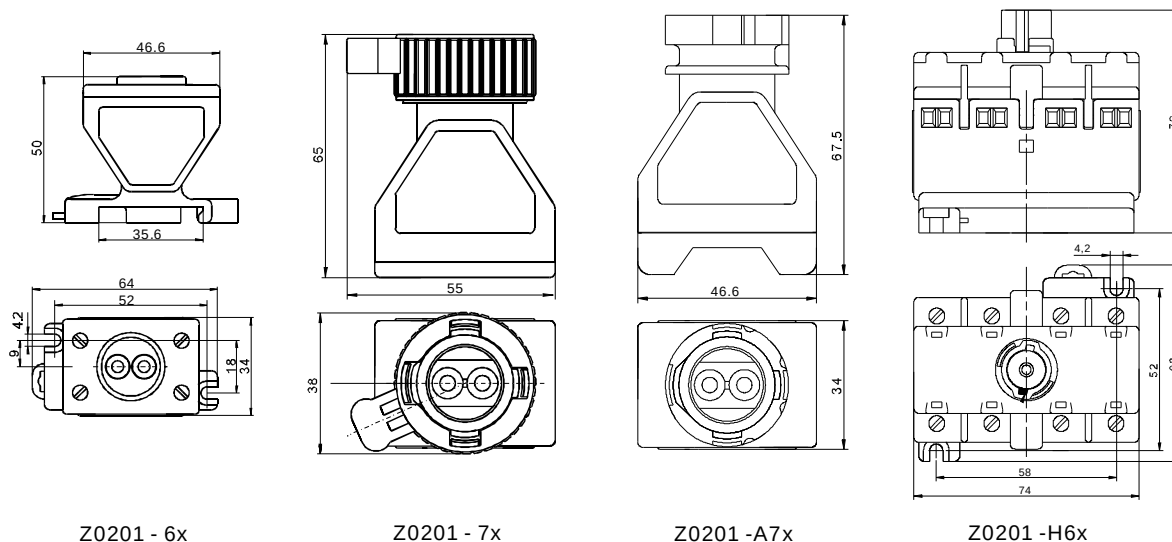
Mechanical life: 10.000.000 switching cycles (The flameproof gap will not exceed the designed gap and its explosion protection performance will not be changed when it is to be used in its mechanical life)

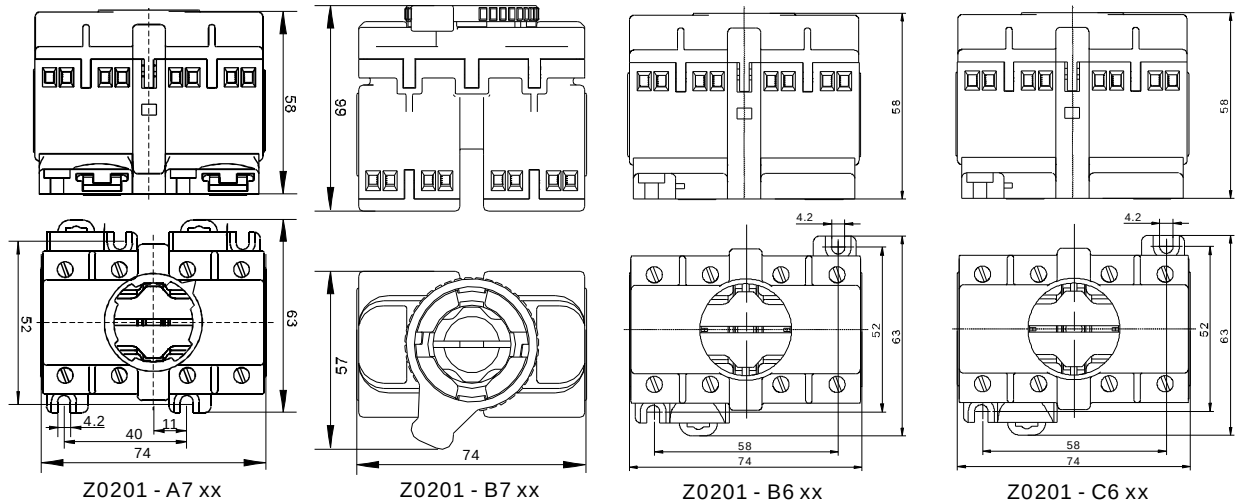
Connection type: Terminal 2.5mm Wire insulation stripping 6~8mm

Tightening torque: 0.6~0.8Nm

Mounting type 6 for TS35x7.5 rail

Dimensiones





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 mounting and operating this equipment.
- The series of operation head shade is provided to be used together with the control units.
- For the sake of ensuring normal operation and safety of explosionproof control unit, user must abide by the following provisions:
 - * Explosion-proof control unit is designed to be used under the following atmospheric conditions:
The pressure is 80kPa(0.8bar)~110kPa(1.1bar)
The volume ratio of standard oxygen content is 21% air.
 - * This product should be enclosed in explosion-proof enclosure which is fitted to the environment.
- * Proposed tightening screw torque: 0.6 ~0.8 Nm.
- * The module mounting should be firm and reliable.
- * When using the control unit the creepage distance of bare current-carrying part should be ≤ 12.5 mm. Electric clearance should be ≤ 8 mm.
- * The flameproof shaft and flameproof enclosure are not intended to be repaired.
- * The supply terminals are designed for the connection of ≤ 2.5 mm² max two brass conductors (IEC60947-7-1).
if multi- or fine - wire connecting cables are used, the wiring ends will have to be handled in accordance with the applicable national and international rules.
- * The conductor itself shall not be damaged.
- * The wiring should be clamped by the standard compression ferrule (See figure 1). If two wires have to be connected the cross-section area of the wires should be the same.(see figure 2)

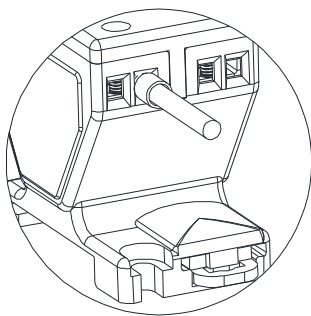


Figure 1

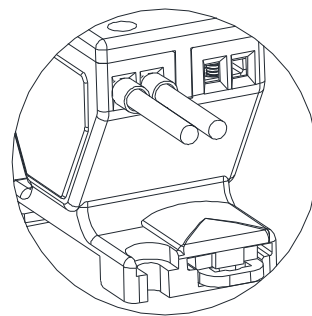
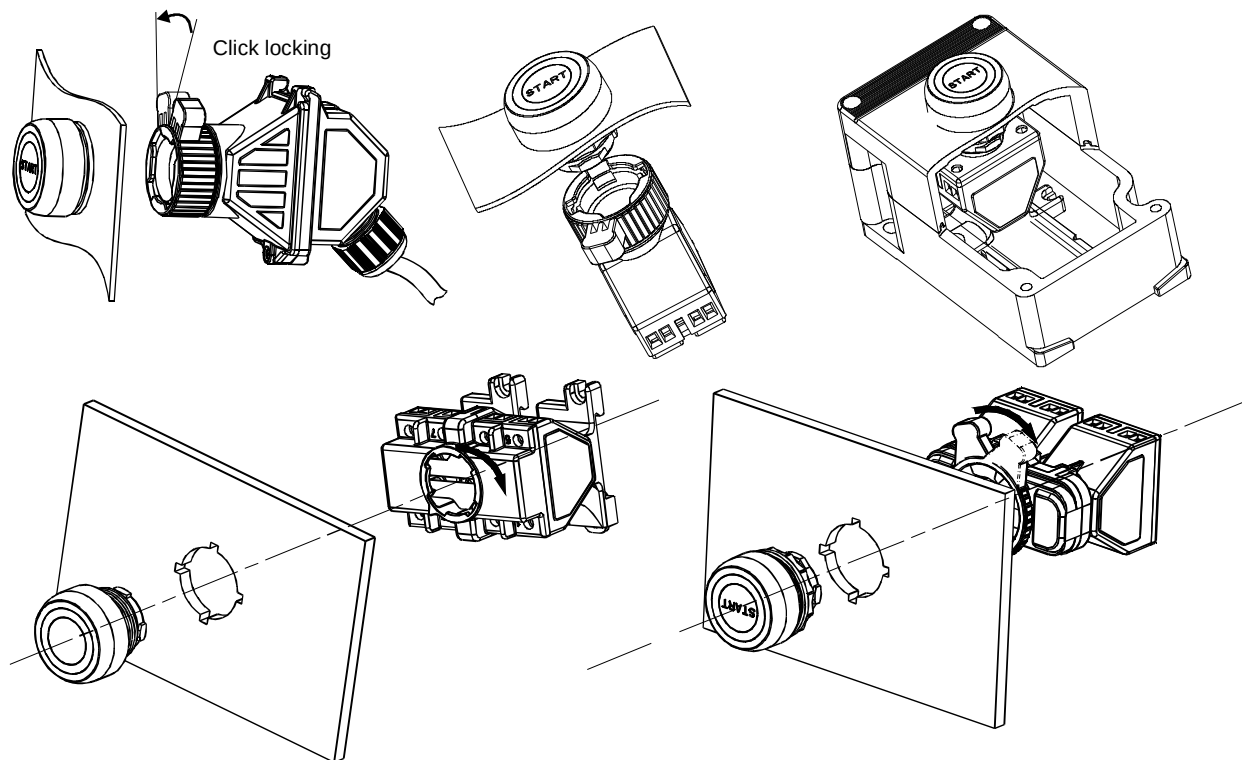


Figure 2



Repairs / 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 components.
 - * Check if the component has been fixed reliably.
 - * Check if the wiring is not loose or fixed.
 - * Check if the flame-proof joints is damaged.

Recycling / Disposal

- The respective valid national regulations for waste disposal shall be observed when disposing of apparatus!
- We are pleased to answer any questions. In this case you can contact INDEX ELEKTRO BV.