

EXPERT ASSESSMENT

Certificate No.:

G 328-2

Testing Body:

TÜV SÜD Industrie Service GmbH Department New Technologies

Gottlieb-Daimler-Str. 7

70794 Filderstadt - Germany

Certificate Holder:

Hans & Jos. Kronenberg GmbH

Kurt-Schumacher-Str. 1

51427 Bergisch Gladbach - Germany

Manufacturer

Hans & Jos. Kronenberg GmbH

Kurt-Schumacher-Str. 1

51427 Bergisch Gladbach - Germany

Product:

Safety contact with positive operation with tactile contacts for use as lock contact of landing door and car door locking devices or as door switch of

lift doors

Type:

HZ

Basis of

- EN 81-20:2020

examination:

- EN 81-50:2020

Test report:

G 328-2 dated 2023-09-05

Outcome:

The product conforms to the requirements of the

basis of examination if the requirements of the annex to this expert assessment are kept.

Date of Issue:

2023-09-05

Valid until:

2028-09-04



Mark Dietz

Technical Body LCC

Annex to the Expert Assessment No. G 328-2 of 2023-09-05



1 Scope of application

- 1.1 The safety switch with forced actuation, type HZ, basically consists of spring-loaded, double-break tactile contacts.
- 1.2 The slight transverse movement of the contacts ensures that they are self-cleaning. The housing of the switch consists of two housing parts, which are firmly connected to each other via 11 latching lugs. The housing material of the switch consists of insulating material (thermoplastic, self-extinguishing). The clamping screws for the electrical connection are designed with captive, self-lifting clamping plates on the clamping screws.
- 1.3 The two tactile contacts are housed in separate contact chambers.
- 1.4 The electrical connection cables are fed through the cable entry into the connection chamber of the safety switch.
- 1.5 The housing of the safety switch, type HZ is designed in protection class IP 20.
- 1.6 The safety switch with forced actuation, type HZ can be actuated with the following switch bridges:
 - Switch bridge, type PZ 18; with 18 mm long contact pins; insulated screw-on plate: 40.5 mm long; longitudinally adjustable by ± 2 mm.
 - Switch bridge, type PZ 21; with 21 mm long contact pins; insulated screw-on plate: 40.5 mm long; longitudinally adjustable by ± 2 mm
 - Switch bridge, type DZ 18; with 18 mm long contact pins; insulated screw-on plate: 70 mm long; longitudinally adjustable by ± 4 mm
 - Switch bridge, type DZ 21; with 21 mm long contact pins; insulated screw-on plate: 70 mm long; adjustable by ± 4 mm in longitudinal direction
 - Switch bridge, type PZ 18SO; with 18 mm long contact pins; insulated screw-on plate: 44 mm long; adjustable by ± 2 mm in transverse direction

The height of the contact pin insulation is identical for each of the switch bridges listed above. In the case of the switch bridges with 21 mm long contact pins, the bare contact pin is 3 mm longer than the switch bridges with 18 mm long contact pins.

2 Conditions

2.1 Electrical nominal values of the safety contact

Alternating current: 230 V / 2 A Direct current: 200 V / 2 A

2.2 For identification and information about the fundamental method of construction of the safety contact the

Datasheet "Türschalter HZ" dated May 2023

with test remark of 2023-09-05, has to be enclosed to this Confirmation about a test assessment.

2.3 The creepage distances of the switch of at least 4 mm and the clearances of the switch of at least 3 mm in relation to conductive or metallic components in the surroundings, must be guaranteed by the arrangement of the switch-box and the switch-bridge or by inserting additional insulating shims.

Annex to the Expert Assessment No. G 328-2 of 2023-09-05



3 Remarks

- 3.1 This confirmation about a test assessment was issued according to the following standards:
 - EN 81-20:2020, 5.11.2.2
 - EN 81-50:2020, 5.2.2.4
- 3.2 The test results refer only to the test product and to the related certificate concerning the Confirmation about a test assessment.
- 3.3 The Confirmation about a test assessment may be used only in connection with the pertinent Annex.
- For legal reasons, this expert assessment does not correspond to an EC type-examination certificate according to Annex IV of Directive 2014/33/EU (Lift Directive), but can be used as a decision-making aid.
- 3.5 This certificate does not assess the observance of the requirements with regard to "protection classes provided by enclosures according to EN 60529 (IP-Code) concerning protection against foreign matter (objects) and against water" for electric devices.
- 3.6 The product shall be clearly labelled with the name of the manufacturer and the type specification, to be able to check the conformity of the examined product with the series production.
- 3.7 This test report does not assess the fire behaviour of the safety switch and the switch bridges.
- 3.8 Safety switches are not included in the list of safety components (Annex III of Directive 2014/33/EU). Therefore, an EU-type examination certificate according to Annex IV Section A (EU-type examination for safety components) of Directive 2014/33/EU cannot be issued for them.
- 3.9 This Confirmation about a test assessment is based on the state of the art, which is documented through the current harmonized standards. Changes resp. extensions of these standards or a further development of the state of the art may make a revision of this report necessary.
- 3.10 If new knowledge should occur, the test laboratory reserves the right, to give additional conditions concerning the use of the safety contact, or to modify existing conditions.





Merkmale

- · Sicherheitsschalter mit Zwangsbetätigung
- Gehäuse aus Thermoplast, selbstverlöschend
- großzügiger Einlauf bei kleinem Schwenkradius am Hakenriegel
- hohe Kontaktsicherheit durch Selbstreinigung
- geräuscharme Funktionsweise
- Befestigungsunterlagen aus Metall zur sicheren Befestigung
- optional mit UL-Kennzeichnung

features

- safety switch with positive contact
- enclosure made of thermoplastic, self-extinguishing
- large-scale feed opening at small swiveling radius at hook lock
- high contact safety by self-cleaning
- quiet functioning
- mounting brackets made of metal for secure fixation
- as option with UL-marking



05.09.2023

Bestellangaben / order information codes:

HZ Sperrmittelschalter für Hakenriegel switch for locking mechanism for hook bolt

Technische Daten:

Normen EN 81-20, EN 81-50, EN 60947-5-1 Schaltleistung Ui = 500 V Ith = 6 A Uimp = 4 kV

AC-15: Ue = 230 V le = 2 A DC-13: Ue = 200 V le = 2 A

Kurzschlussfestigkeit T10 A F 16 A **Kontaktwerkstoff** Feinsilber

Betätigungskraft Anfangskraft 0,5 N Endkraft 2,0 N

Anschluss über Schraubklemme max. 2,5 mm², unverlierbar

Schutzart IP20

Umgebungstemperatur -30 °C bis +80 °C

EinbaulagebeliebigGewicht20 g

technical data:

norms EN 81-20, EN 81-50, EN 60947-5-1 switching capacity Ui = 500 V Ith = 6 A Uimp = 4 kV

AC-15: Ue = 230 V le = 2 A DC-13: Ue = 200 V le = 2 A

short-circuit capacityT10 A F 16 A **contact material**fine silver

actuation force initial force 0.5 N ultimate force 2.0 N connection by screw terminal max. 2.5 mm², captive

level of protection IP20

ambient air temperature -30 °C up to +80 °C

installation position any weight 20 g

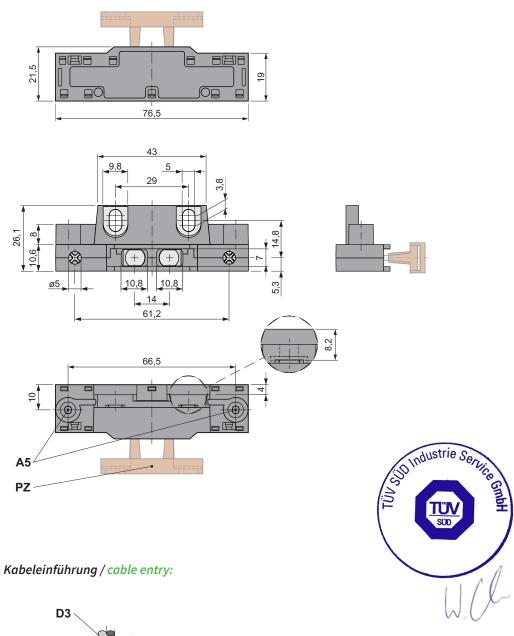


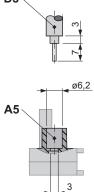
Zubehör / accessories:

PZ18 Kontaktbrücke, Höhe 18 mm / contact bridge, height 18 mm PZ21 Kontaktbrücke, Höhe 21 mm / contact bridge, height 21 mm

PZ-U1 Unterlage, 1 mm dick für PZ18, PZ21 / pad, 1 mm thick for PZ18, PZ21 PZ-U5 Unterlage, 5 mm dick für PZ18, PZ21 / pad, 5 mm thick for PZ18, PZ21

Geräteabmessungen / device dimensions:





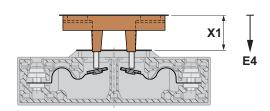
- **A5** Kabeleinführung zweiadrig, max. ø 6 mm cable entry twin core, max. ø 6 mm
- **D3** Abisolation der Anschlussleitung stripping of connection cable

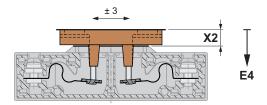
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PZ Kontaktbrücke PZ18 oder PZ21 contact bridge PZ18 or PZ21

Schaltweg X / contact travel X:

am Beispiel von HZ mit PZ21 / by the example of HZ with PZ21





Χ	Schaltweg (in mm) contact travel (in mm)	PZ18*)	
X1	Kontaktberührung contact touch	10	13
X _{opt} .	optimaler Durchhub optimal overtravel	7	9
X2	maximaler Durchhub maximum overtravel	6	6

^{*)} reduzierter Durchhub reduced overtravel



E4 Betätigungsrichtung / actuating direction