PS38H
Safety Hinges


PS38H

- **Multiple integrated circuit**
- **Compact dimensions**
- **Minimum width of installation: 30mm**
- **Protection degree IP67**
- **Safety switch intregrated**
- **Conforms to IEC / EN Standards, ISO 13849-1 (SIL 3, PLe)**
- **Staninless steel components**
- **Contact configurations:**
  2NO + 2NC / 1NO + 3NC
- ⧈

Approvals

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Product Description

PS38H is a series of compact safety hinges with flexible mounting configurations- top axial output with cable or connector and back output. The internal switch is composed of 4 slow action double break contacts (Zb type to IEC EN 60947-5-1) guaranteed for all NC contacts. The four contacts are available in two configurations - T22 (2NO + 2NC) or T13 (1NO + 3NC).
All the circuits have low contact resistance thanks to the self-cleaning action of the silver paste.

Ordering Key

PS38H-IT2205-T01

- **Model**
- **Cable gland**
- **Contact block**
- **Head Type**
- **Material of body**
- **Options**

Type Selection

Model	Cable gland	Contact block	Head type	Material body	Options
PS38H	I: 8 pole connector (cable with connector not included, and not available from Carlo Gavazzi)	T22: 2NO + 2NC non overlapping slow action	05: 90° Adjustable	T: Thermoplastic body and thermpoplastic head	01: Top axial output
Safety hinge	C: 2m. cable with 8 conductors (pre-wired)	T13: 1NO + 3NC non overlapping slow action	-	-	02: Back output

How to Order

Code	Description	Connection	NO Contacts	NC Contacts
PS38H-IT2205-T01	Top axial output	M12 Connector	2	2
PS38H-CT2205-T01	Top axial output	2m UL cable	2	2
PS38H-CT2205-T02	Back axial output	2m UL cable	2	2
PS38H-IT1305-T01	Top axial output	M12 Connector	1	3
PS38H-CT1305-T01	Top axial output	2m UL cable	1	3
PS38H-CT1305-T02	Back axial output	2m UL cable	1	3

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General Data

Standard	Devices conform with international IEC 947-5-1 and European EN 60947-5-1 standards.
Air temperature	
During operation	-20° to +80°C
For storage	-20° to +80°C
Protection degree	IP67

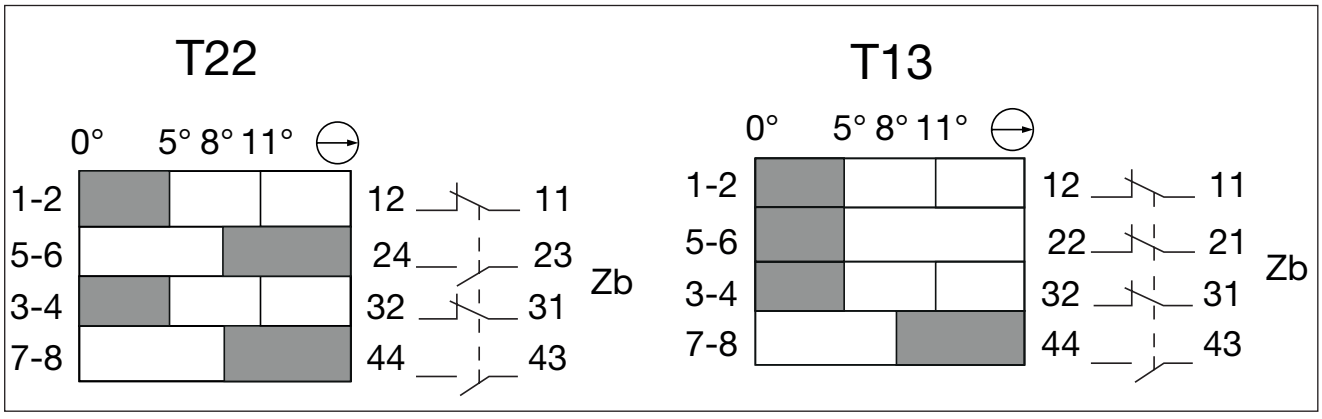
Mechanical durability	1.000.000 operations
Operational frequency	1.200 cycles/h
B10d (n. operations)	2.000.000 cycles
Positive opening operation	(according to IEC 947-5-1) All NC contacts have positive opening activation (min. 0,5Nm.)

Electrical Data

Rated isulation voltage Ui	
According to IEC 947-1	
Pollution degree 3	
Cable	400V
Connector	30V
Protection against electric shock	Class II
Thermal current Ith	
Cable	4A
Connector	2A

Rated operational current	Cable	Connector
24V - 50/60 Hz	4A	-
120V - 50/60 Hz	4A	-
250V - 50/60 Hz	4A	-
400V - 50/60 Hz	4A	-
24V - d.c.	2A	2A
125V - d.c.	0.4A	-
250V - d.c.	0.3A	-

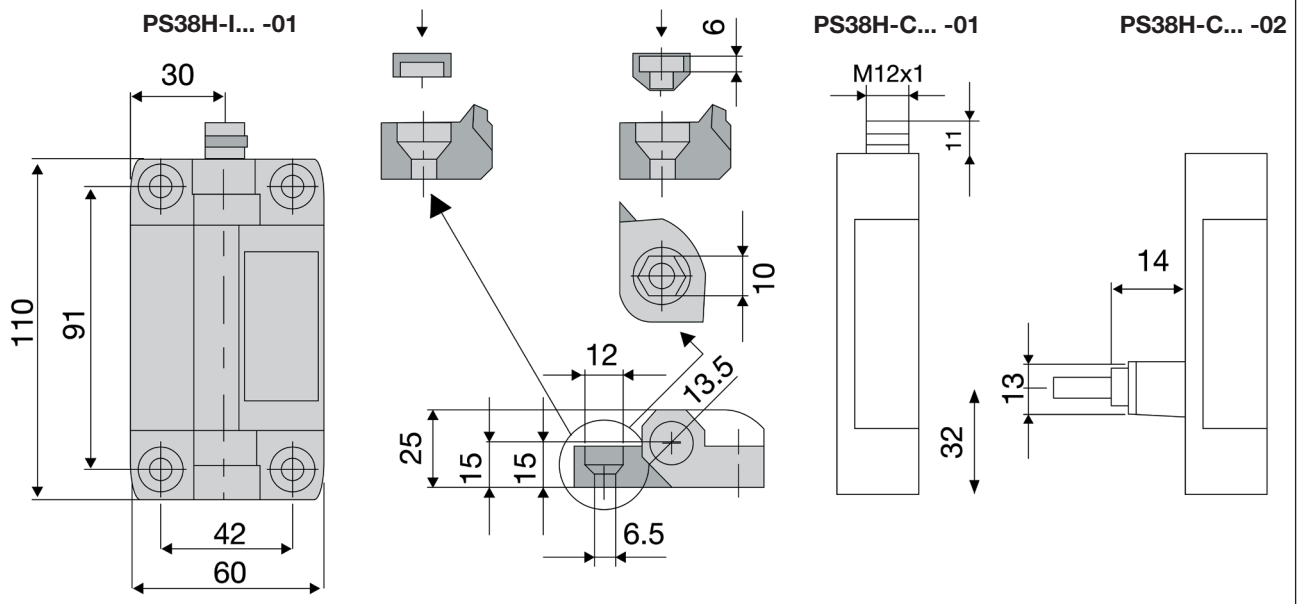
Diagram of Contacts



NOTE
As shown in the diagram (see above), the angle of action is set at the factory to 5° (opening of the NC contacts, to be verified according to EN294). This angle and, in consequence, also the agle of the closure of the NO contact and positive opening of the NC contacts can be adjusted by the installer; in the case of doors of considerable size, the operating angle can be reduced down to 1°, by using a screwdriver on the adjustment screw.

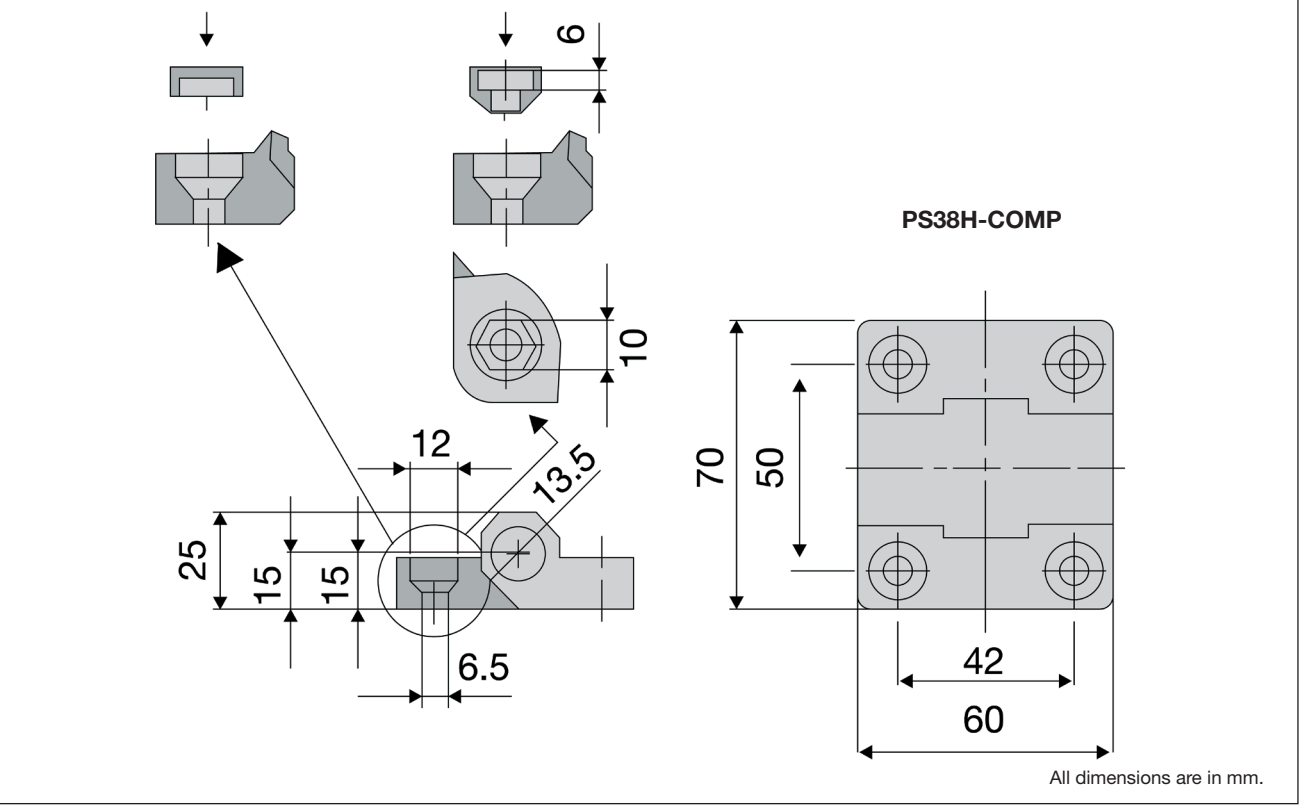
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Dimensions



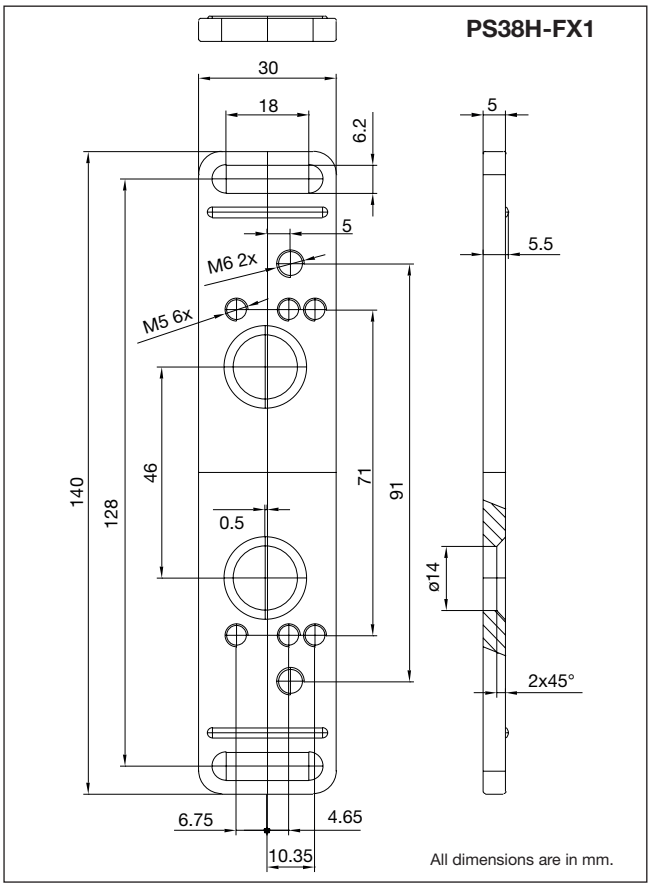
All dimensions are in mm.

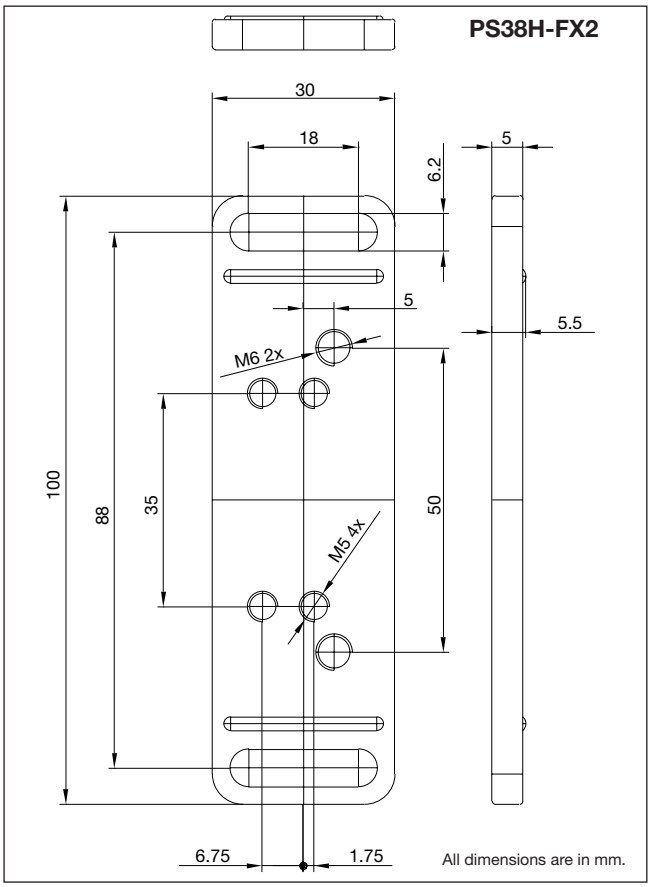
Dimensions



All dimensions are in mm.

Accessories





Accessories

Code	Description
PS38H-COMP	Complementary mechanical hinge
PS38H-FX1	Mounting bracket, pair of supports for safety hinge PS38H (fixing screws for switch included)
PS38H-FX2	Mounting bracket, pair of supports for complementary hinges PS38H-COMP (fixing screws for switch included)

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