

PS38H Safety Hinges



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



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 (Safety Hinge)	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 thermoplastic head	01: Top axial output 03: Bottom axial output
	C: 2m. cable with 8 conductors (pre-wired)	T13: 1NO + 3NC non overlapping slow action	05: 90° Adjustable	T: Thermoplastic body and thermoplastic head	01: Top axial output 02: Back output 03: Bottom axial output

How to Order

Code	Description	Connection	NO Contacts	NC Contacts
PS38H-IT2205-T01	Top axial output	M12 Connector	2	2
PS38H-IT2205-T03	Bottom 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-CT2205-T03	Bottom 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

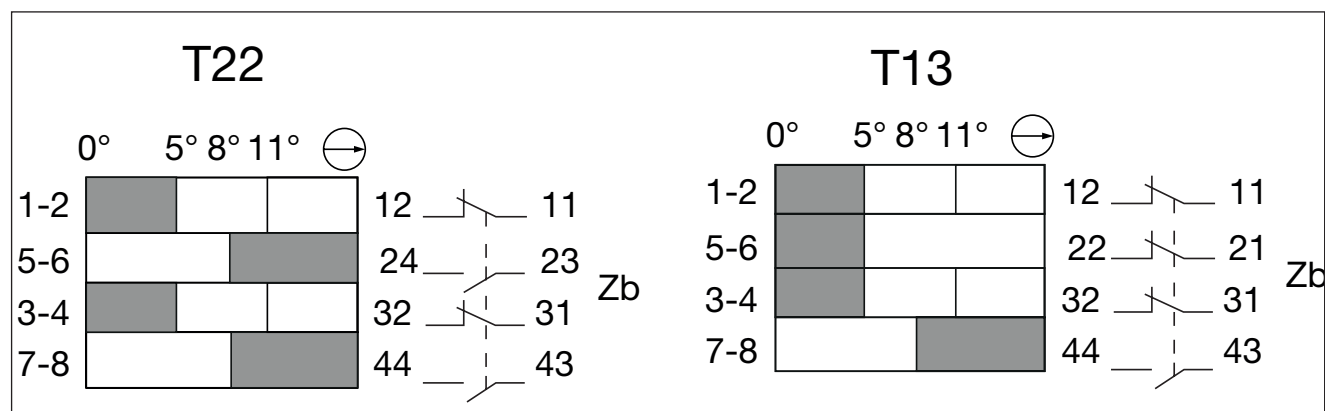
General Data

Standard	Devices conform with international IEC 947-5-1 and European EN 60947-5-1 standards.	Mechanical durability	1.000.000 operations
		Operational frequency	1.200 cycles/h
		B10d (n. operations)	2.000.000 cycles
Air temperature		Positive opening operation	(according to IEC 947-5-1) All NC contacts have positive opening activation (min. 0,5Nm.)
During operation	-20° to +80°C		
For storage	-20° to +80°C		
Protection degree	IP67		

Electrical Data

Rated isolation voltage Ui		Rated operational current	Cable	Connector
According to IEC 947-1		24V - 50/60 Hz	4A	-
Pollution degree 3		120V - 50/60 Hz	4A	-
Cable	400V	250V - 50/60 Hz	4A	-
Connector	30V	400V - 50/60 Hz	4A	-
Protection against electric shock	Class II	24V - d.c.	2A	2A
Thermal current Ith		125V - d.c.	0.4A	-
Cable	4A	250V - d.c.	0.3A	-
Connector	2A			

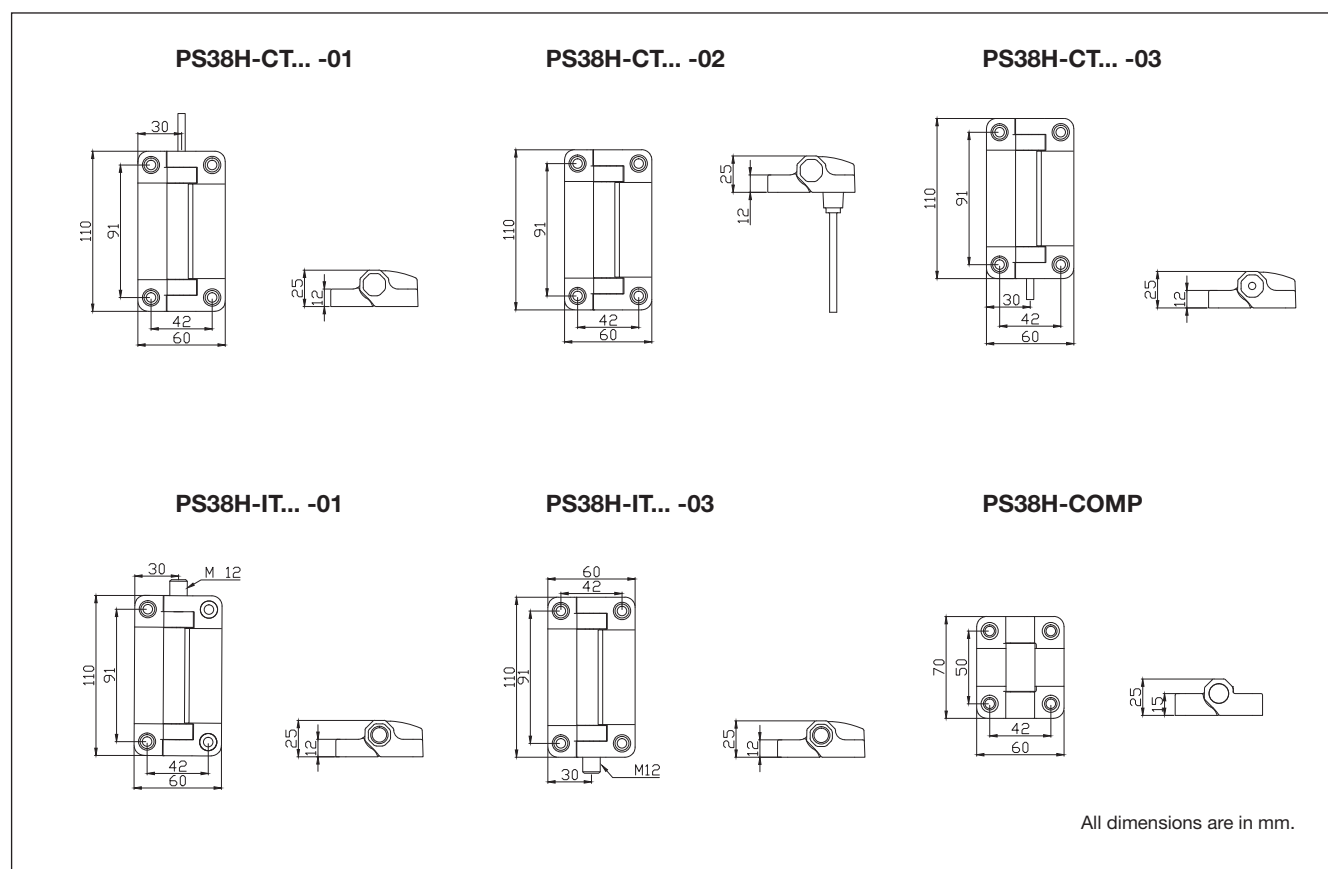
Diagram of Contacts



NOTE

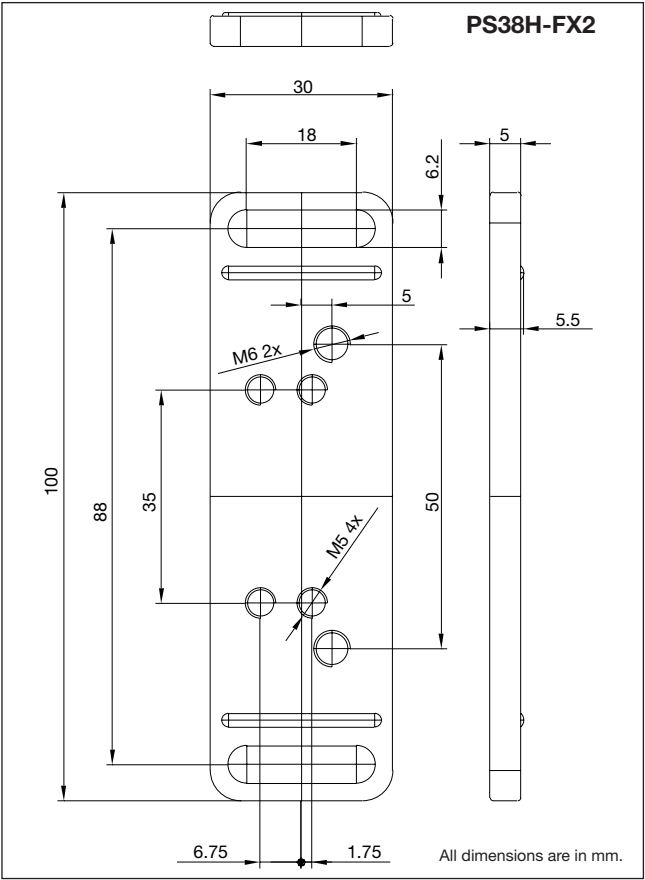
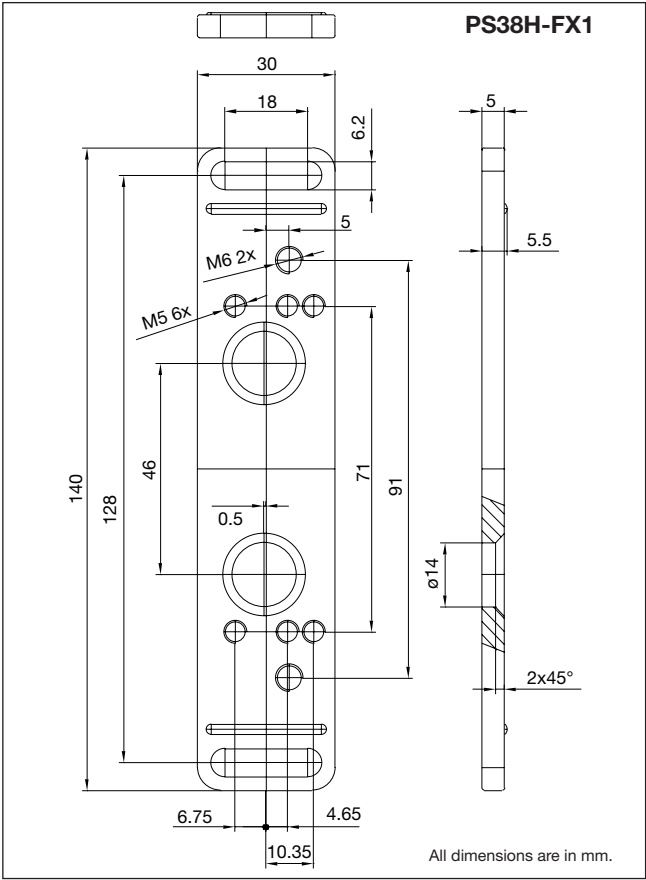
As shown in the diagram (see above), the angle of action is set at the factory to 5° (opening of the NC contacts, to be verified according to EN294). This angle and, in consequence, also the angle of the closure of the NO contact and positive opening of the NC contacts can be adjusted by the installer; 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.

Dimensions





Dimensions



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)