



Safety Hinge

Switch

PS38H

Safety Hinge

To add to its range of safety devices, Carlo Gavazzi has created a new hinge with multiple integrated circuit which can suit all applications where high security is combined with a modern and sophisticated design.

Thanks to its small size and numerous mounting options and connections (cable/connectors), the device is easily installed on most common aluminium profiles (minimum width 30 mm.).

Its installation is also facilitated by a safety switch integrated into a single body, thus avoiding the need to separately install a mechanical hinge and a safety switch connected via a special pin.



Versatile safety hinge

- Integrated safety switch
- Easy to install
- Minimum installation width: 30mm
- Dimensions D 110 x W 30 x H15
- IP67 with stainless steel components
- Five different configurations for connection

Conformity

The internal switch is composed of 4 slow action double break contacts (Zb form according to IEC EN 60947-5-1). The positive opening (according to IEC EN 60947-5-1) is guaranteed on all NC contacts.

Harsh environment

The use of stainless steel components and the degree of protection IP67 permit the hinge to be subjected to frequent washing and to be used in environments where cleanliness and hygiene require maximum attention. Both the self-

- Two different contact configurations 2NO+2NC / 1NO+3NC
- Mechanical durability 1,000,000 operations
- Operational frequency 1,200 cycles/h
- Operating temperature – 20 to + 80 °C
- Safety system of machinery up to SIL 3
- Conforms to EN ISO 13849-1

The use of a redundant system its configuration allows a safety system of machinery up to SIL 3 or PLe according to EN ISO 13849-1.



extinguishing body of the hinge and the rotation pin are made of high-rigidity technopolymer capable of resisting solvents, oils, greases and various chemical agents.

Switch

How to increase the safety

The angle of action is set at the factory to 5°. This angle and in cosequence, 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. The degree of protection IP67 is then

assured by inserting the appropriate safety plug (not removable) in the adjustment hole.



**Top axial output
M12 Connector**



**Top axial output
2mt. Cable**



**Back output
2mt. Cable**

Applications

The safety hinges PS38H, mounted on the profiles of the door, totally replace normal hinges used for the fixing of the door.

Thanks to the integration of the safety unit, is not needed a limit switch for additional safety. The PS38H can be used for access control in high-risk areas.

The safety hinge is used to control the opening of machine doors, for example lathes.



Selection guide

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
PS38H-COMP	Complementary mechanical hinge		-	
PS38H-FX1	Mounting bracket		-	
PS38H-FX2	Mounting bracket		-	

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