



Safety Hinge

Switches

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.

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**



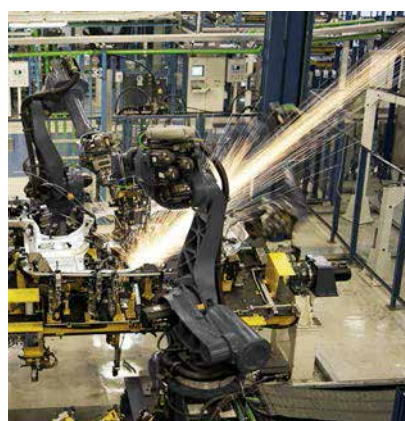
**Back output
2mt. Cable**

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		-	

OUR SALES NETWORK IN EUROPE

AUSTRIA - Carlo Gavazzi GmbH
Ketzergasse 374, A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 10 53
office@carlogavazzi.at

BELGIUM - Carlo Gavazzi NV/SA
Mechelsesteenweg 311, B-1800 Vilvoorde
Tel: +32 2 257 4120
Fax: +32 2 257 41 25
sales@carlogavazzi.be

DENMARK - Carlo Gavazzi Handel A/S
Over Hadstenvej 40, DK-8370 Hadsten
Tel: +45 89 60 6100
Fax: +45 86 98 15 30
handel@gavazzi.dk

FINLAND - Carlo Gavazzi OY AB
Petaksentie 2-4, FI-00630 Helsinki
Tel: +358 9 756 2000
Fax: +358 9 756 20010
myynti@gavazzi.fi

FRANCE - Carlo Gavazzi Sarl
Zac de Paris Nord II, 69, rue de la Belle
Etoile, F-95956 Roissy CDG Cedex
Tel: +33 1 49 38 98 60
Fax: +33 1 48 63 27 43
french.team@carlogavazzi.fr

GERMANY - Carlo Gavazzi GmbH
Pfnorsstr. 10-14
D-64293 Darmstadt
Tel: +49 6151 81000
Fax: +49 6151 81 00 40
info@gavazzi.de

GREAT BRITAIN - Carlo Gavazzi UK Ltd
4.4 Frimley Business Park,
Frimley, Camberley, Surrey GU16 7SG
Tel: +44 1 276 854 110
Fax: +44 1 276 682 140
sales@carlogavazzi.co.uk

ITALY - Carlo Gavazzi SpA
Via Milano 13, I-20020 Lainate
Tel: +39 02 931 761
Fax: +39 02 931 763 01
info@gavazziacbu.it

NETHERLANDS - Carlo Gavazzi BV
Wijkemeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 9345
Fax: +31 251 22 60 55
info@carlogavazzi.nl

NORWAY - Carlo Gavazzi AS
Melkeveien 13, N-3919 Porsgrunn
Tel: +47 35 93 0800
Fax: +47 35 93 08 01
post@gavazzi.no

PORTUGAL - Carlo Gavazzi Lda
Rua dos Jerónimos 38-B,
P-1400-212 Lisboa
Tel: +351 21 361 7060
Fax: +351 21 362 13 73
carlogavazzi@carlogavazzi.pt

SPAIN - Carlo Gavazzi SA
Avda. Iparraguirre, 80-82,
E-48940 Leioa (Bizkaia)
Tel: +34 94 480 4037
Fax: +34 94 431 60 81
gavazzi@gavazzi.es

SWEDEN - Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 11 77
info@carlogavazzi.se

SWITZERLAND - Carlo Gavazzi AG
Verkauf Schweiz/Vente Suisse
Sumpfstrasse 3,
CH-6312 Steinhausen
Tel: +41 41 747 4535
Fax: +41 41 740 45 40
info@carlogavazzi.ch

OUR SALES NETWORK IN THE AMERICAS

USA - Carlo Gavazzi Inc.
750 Hastings Lane,
Buffalo Grove, IL 60089, USA
Tel: +1 847 465 6100
Fax: +1 847 465 7373
sales@carlogavazzi.com

CANADA - Carlo Gavazzi Inc.
2660 Meadowvale Boulevard,
Mississauga, ON L5N 6M6, Canada
Tel: +1 905 542 0979
Fax: +1 905 542 22 48
gavazzi@carlogavazzi.com

MEXICO - Carlo Gavazzi Mexico S.A. de C.V.
Calle La Montaña no. 28, Fracc. Los Pastores
Naucalpan de Juárez, EDOMEX CP 53340
Tel & Fax: +52.55.5373.7042
mexicosales@carlogavazzi.com

BRAZIL - Carlo Gavazzi Automação Ltda.
Av. Francisco Matarazzo, 1752
Conj 2108-/Funda-São Paulo/SP
CEP 01401-000
Tel: +55 11 3052 0832
Fax: +55 11 3057 1753
info@carlogavazzi.com.br

OUR SALES NETWORK IN ASIA AND PACIFIC

SINGAPORE - Carlo Gavazzi Automation
Singapore Pte. Ltd.
61 Tai Seng Avenue
#05-06 UE Print Media Hub
Singapore 534167
Tel: +65 67 466 990
Fax: +65 67 461 980
info@carlogavazzi.com.sg

MALAYSIA - Carlo Gavazzi Automation
(M) SDN. BHD.
D12-06-G, Block D12,
Pusat Perdagangan Dana 1,
Jalan PJU 1A/46, 47301 Petaling Jaya,
Selangor, Malaysia.
Tel: +60 3 7842 7299
Fax: +60 3 7842 7399
sales@gavazzi-asia.com

CHINA - Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F.,
News Building, Block 1, 1002
Middle Shennan Zhong Road,
Shenzhen, China
Tel: +86 755 83699500
Fax: +86 755 83699300
sales@carlogavazzi.cn

HONG KONG - Carlo Gavazzi
Automation Hong Kong Ltd.
Unit 3 12/F Crown Industrial Bldg.,
106 How Ming St., Kwun Tong,
Kowloon, Hong Kong
Tel: +852 23041228
Fax: +852 23443689

OUR COMPETENCE CENTRES AND PRODUCTION SITES

DENMARK - Carlo Gavazzi Industri A/S
Hadsten

MALTA - Carlo Gavazzi Ltd
Zejtun

ITALY - Carlo Gavazzi Controls SpA
Belluno

LITHUANIA - Uab Carlo Gavazzi Industri
Kaunas

CHINA - Carlo Gavazzi Automation
(Kunshan) Co., Ltd.
Kunshan

HEADQUARTERS

Carlo Gavazzi Automation SpA
Via Milano, 13 - I-20020
Lainate (MI) - **ITALY**
Tel: +39 02 931 761
info@gavazziautomation.com



Printed on 100% recycled paper
produced using
post consumer de-inked waste.

CARLO GAVAZZI
Automation Components

Energy to Components!

www.gavazziautomation.com

