4D

Pizzato Elettrica widens its own range of products making a new series of safety switches hinge-shaped HX series, where safety and style are melted in one single product.

The switch is completely integrated in the mechanical hinge, to result practically invisible to an inexpert eye. This guarantees a higher safety because a switch hard to identify is consequently also more difficult to defeat. The assembly without visible screws and the pleasant line, make the switch perfectly integrated also with guards of modern design machinery.

The hinge-shaped safety switches of the HX series, being made of stainless steel, can be used in any aseptic environment where particular attention is required for cleanliness and hygiene, therefore they are suitable for various applications ranging from the food to the pharmaceutical sectors, as well as the chemical or marine sector.



Operating point regulation



The switches operating point can be regulated through a flatblade screwdriver. The operating point regulation allows the setting possibility for large guards. After the setting, it's always necessary to close the hole through the suitable supplied safety seal plug.

Variations of the activation base angle



Versions with the switch activation angle equal to a multiple of 15° (e.g. 45° or 90°) are available on request. The different activation angle does not exclude the possibility of finely adjusting the operating point by means of the adjustment screw found in the switch. Any change in the base operating angle does not alter the maximum mechanical switch travel.

Cable with connector from the back



The version with a rear cable and M12 connector is used to obtain the best combination between aesthetics and connection ease. This solution makes it possible to hide the wiring and, at the same time, easily connect or disconnect it from inside the machinery.

Opening angle up to 180°



The mechanical design of the switch allows the application also onto protections up to 180° opening angle.

Protection degree IP67 and IP69K



The HX series switches by Pizzato Elettrica, besides having an IP67 protection degree, have passed the test proving their IP69K protection degree according to the prescriptions established by the DIN 40050 standard.Therefore they are suitable for use in machineries

subjected to intense washing with high pressure and high temperature water jets and for any condition or environment where a particular attention for cleanness and hygiene is required, such as in food or pharmaceutical industry.

Materials



With this new series in AISI316L stainless steel, Pizzato Elettrica offers a range of devices suitable for any environment where chemical and corrosive agents are found or for aseptic environment where particular attention is required for cleanliness and hygiene. Accurate surface finish makes it possible for these devices to be used in vari-

ous applications ranging from the food to the pharmaceutical sectors, as well as the chemical or marine sector.

Additional hinges



To complete installation, various types of additional hinges are available, varying in numbers depending on the protection guard weight. These hinges keep the same aesthetics and mechanical structure but, having no electrical part, they cost less.

Laser marking



Pizzato Elettrica has introduced a new laser marking for switches of the HX series. Thanks to this new system which excludes the use of labels, markings on the products are indelible.

Furthermore, in case of machineries subjected to intense high pressure water jets, there is no risk of labels detaching from the product.

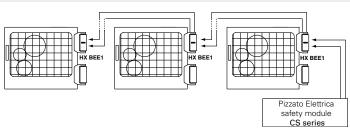


Version with electronic contacts (PL e / SIL 3)



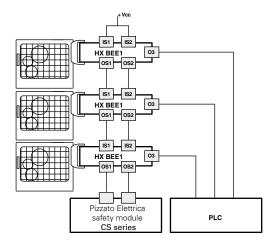
The redundant internal structure of the HX hinged safety switch meets the characteristics required by the EN ISO 13489-1 and IEC 62061 standards, therefore the actual switch can be classified as a device of category 4, PL e and SIL 3.

Its high diagnostic cover and high MTTF for each single channel make it possible for the HX switch not to lose its safety function even in the case of one single anomaly.



4D

These are the reason why the switch can be used in series, while maintaining the PL e safety level, as long as it is connected to an appropriate module which controls its correct operation.



Possible connection in series of several switches in order to simplify the safety system wiring, after evaluating the outputs from the last switch in the chain by means of a Pizzato Elettrica safety module (table for safety modules to be combined). Each HX switch is provided with a signalling output, which is activated when the respective guard is closed. This piece of information can be managed by a PLC, depending on the specific requirements of the system installed.

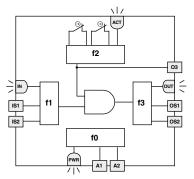
Switch	Compatible safety modules	Safety n	nodule output	contacts
		Safety instantaneous contacts	Safety delayed contacts	Signaling contacts
HX BEE1-•••	CS AR-05••••	3NO	/	1NC
	CS AR-06••••	3NO	/	1NC
	CS AR-08••••	2NO	/	/
	CS AT-0 ••••	2NO	2NO	1NO
	CS AT-1 ••••	3NO	2NO	/
	CS MP		see page 5/63	

HX BEE1 03 HX BEE1 CARA HX BE1 HX BE1

Vc

Possible connection in series of several switches in order to simplify the safety system wiring, after evaluating the outputs from the last switch in the chain by means of a safety module from Pizzato Elettrica CS MP series, which allows management of both safety and signalling functions.

Internal diagram



The side scheme shows the 4 logical functions interacting inside the switch.

F0 function has the fundamental task to control the sensor's power supply and the internal tests which the sensor cyclically undergoes.

F1 function has the task to control the status of the sensor's inputs, while F2 checks the actuator's presence within the activation zone limits. F3 function has the task to

enable the safety outputs and check their possible failure or short circuit. The macro-function, which controls the above mentioned functions, enables the safety outputs only in presence of active inputs with the actuator within the safe zone limits.

4 status-indicator LEDs

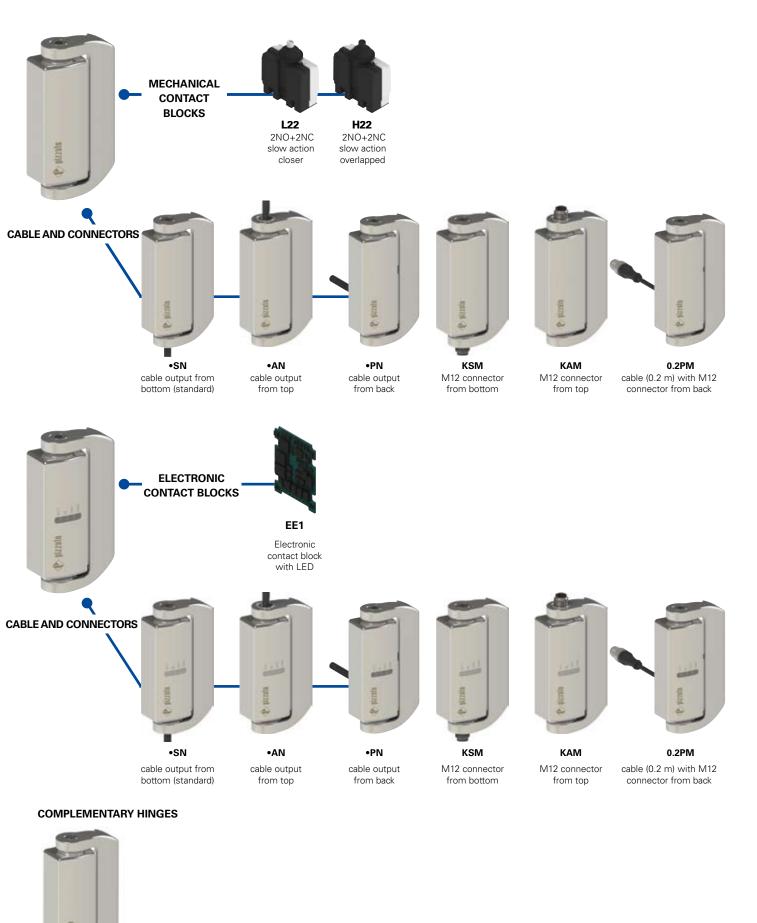


The version with electronic contacts in the HX series is provided with 4 LEDs which make it possible to quickly identify the status it is found in. Each LED is assigned a specific signalling function which makes it possible to immediately identify any wiring errors, circuit breaks or internal faults in the device. The status of each function is displayed by the corresponding LED (PWR, OUT, IN, ACT,), so that the switch condition becomes immediately

evident to the operator. This avoids the need to decode troublesome blinking sequences in order to identify specific system faults.

Selection diagram

4D



НХ СВ

I pizzato elettrica

•

product option

Code struct

t our sales office.

ture	ł		Attention! The	feasibility of a c	ode nur	nber d	loes not n	mean the effective availability of a product. Please contac
		-		article			option	
			HX <u>B</u> L	<u>.22</u> - <u>2</u>	<u>PN</u>	<u> </u>	<u>H1</u> !	5
В	odvandm	ovablepartdi	nensions				Ac	ctivation angle
в		Sx31 mm						0° activation angle (standard)
							H15	5 15° activation angle
Cor	ntact bloc	k					НЗС	0 30° activation angle
		NIC, slow action	closer				H45	5 45° activation angle
		IC, slow action					H60	0 60° activation angle
		ic contact block					H75	5 75° activation angle
EE1		outputs PNP y output PNP					H90	0 90° activation angle
		inputs PNP						
							Contac	cts type
	Т	/pe of connect	tion				silv	ver contacts (standard)
	-	2 cable length					G silv	ver contacts gold plated 1 µm
	2	cable length	n 2 m (standar	d)		Туре	e of cab	ble
		0			-			PVC IEC 60332-1 black (standard)
	10	cable length	n 10 m			М	cable v	with M12 connector
	к	with integra	ited connector	r				
	Othe	er lengths on reques	st.					utput direction and movable part
					S			e part on the right and output from bottom
					P			e part on the right and output from back
					A			e part on the right and output from top
					Q	r	novable	e part on the left and output from back



Complementary hinges

СВ	126x76x31 mm movable part on the right
CD	126x76x31 mm movable part on the left



- AISI 316L stainless steel housing
- Protection degree IP67 and IP69K
- Electronic contact block with LED
- \bullet Two mechanical contact blocks with positive opening Θ
- Complementary hinges without contacts

In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC Electromagnetic Compatibility 2004/108/EC **Positive contact opening in conformity with standards:** IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

In conformity with requirements requested by:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN 1088, ISO 14119, EN ISO 12100-1, EN ISO 12100-2, IEC 60529, EN 60529, DIN 40050, IEC 61508-1, IEC 61508-2, IEC 61508-3, EN ISO 13849-1, EN ISO 13849-2, EN 62061, EN 61326-1, EN 61326-3-1, EN 61326-3-2

Markings and quality marks:

UL approvals pending TÜV approvals pending Approval GOST: POCC IT.AB24.B04512



Technical data

Housing Metal housing, polished in AISI 316L stainless s Version with integrated cable length 2 m, other Versions with M12 connector Versions with M12 connector with cable length	lengths on request.
Protection degree:	IP67 according to EN 60529 IP69K according to DIN 40050 (Protect the cables from direct high-pressure and high-temperature jets)
General data	
For safety applications up to SIL 3 / PL e Safety parameters:	000 0000 7/24
Ambient temperature:	see page 7/34 see table on page 4/50
Max actuation frequency:	600 operations cycles ¹ /hour
Mechanical endurance:	1 million operations cycles ¹
Max actuating speed:	90°/s
Min. actuating speed:	2°/s
Assembling position:	any
Max axial charge:	2000 N
Max radial charge:	2000 N
M6 screws max driving torque:	10 12 Nm
 One operation cycle means two movements, one to close a IEC 60947-5-1 standard. 	nd one to open contacts, as foreseen by
Conditional shot circuit current:	
Pollution degree:	3
Pollution degree: Electrical data (EE1 electronic contact block)	
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue:	24 Vdc -15%+10%
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le:	24 Vdc -15%+10% 0.25 A
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current:	24 Vdc -15%+10% 0.25 A 0.5 mA
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue):	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue):	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes Yes
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes Yes s: < 300 us
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and outpu	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes S: < 300 us t: < 200 nF
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and output Capacity admitted between output and earth:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes S: < 300 us t: < 200 nF
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and outpu	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes S: < 300 us t: < 200 nF
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and output Capacity admitted between output and earth: Auxiliary output O3 Rated operational voltage Ue: Type of output:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes Yes 5: < 300 us t: < 200 nF < 200 nF
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and output Capacity admitted between output and earth: Auxiliary output O3 Rated operational voltage Ue: Type of output: Maximum current for output le:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes Yes S: < 300 us t: < 200 nF < 24 Vdc PNP 0.1 A
Pollution degree: Electrical data (EE1 electronic contact block) Rated operational voltage Ue: Rated operational current le: Minimum working current: Maximum switchable load: Voltage absorption (Ue): Rated impulse withstand voltage Uimp: Restorable internal protection fuse: Overvoltage category: Inputs IS1/IS2 Rated operational voltage Ue: Absorbed rated current: Safety outputs OS1/OS2 Rated operational voltage Ue: Type of output: Maximum current for output le: Short-circuit detection: Protection against overcurrent: Time of deactivation impulses on safe outputs Capacity admitted between output and output Capacity admitted between output and earth: Auxiliary output O3 Rated operational voltage Ue: Type of output:	24 Vdc -15%+10% 0.25 A 0.5 mA 6 W < 1W 1.5 kV 0.75 A III 24 Vdc 5 mA 24 Vdc PNP 0.25 A Yes Yes S: < 300 us t: < 200 nF < 24 Vdc PNP

⚠️ If not expressly indicated in this chapter, for the right installation and the correct utilization of all articles see requirements indicated from page 7/1 to page 7/12.

Attention: switch off the circuit voltage before disconnecting the connector from the switch. The connector is not suitable for sectioning of electrical loads. According to EN 60204-1, versions with 8 poles M12 connector can be used only in circuits PELV.

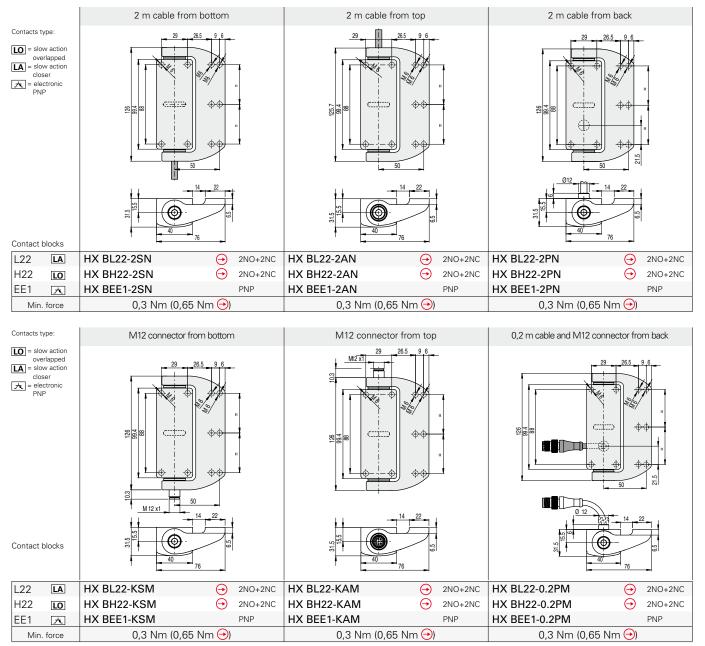
Working temperatures and electrical data for L22 / H22 mechanical contact blocks

			Cable type N 9x0,34 mm ²	8 poles M12 connector
on ures	Fixed laying cable		-25°C +80°C	-25°C +80°C
Utilization temperatures	Flexible laying cable		-5°C +80°C	-5°C +80°C
ten Ut	Dynamic	laying cable	/	/
	Thermal current Ith		3 A	2 A
	Rated insulation voltage Ui		250 Vac	30 Vac 36 Vdc
	Protection against short circuits (fuse)		3 A 500 V type gG	2 A 500V type gG
l data	es	24 V	2 A	2 A
Electrical data	Utilization categories DC13	125 V	0,4 A	/
Ele	5 g	250 V	0,3 A	/
	es	24 V	3 A	2 A
	Utilization categories AC15	120 V	3 A	/
	Gai C	250 V	3 A	/

Working temperatures and electrical data for EE1 electronic contact block

			Cable type N 8x0,34 mm ²	8 poles M12 connector
on ures	Fixed layir	ng cable	-25°C +70°C	-25°C +70°C
Utilization temperatures	Flexible lay	ing cable	-5°C +70°C	-5°C +70°C
ten Ct	Dynamic lay	ving cable	/	/
	Therr curren		0,25 A	0,25 A
lata	Rated ins voltag		32 Vdc	32 Vdc
Electrical data	Protection ag circuits		1 A	1 A
Elec	Utilization categories DC12	24 V	0,25 A	0,25 A

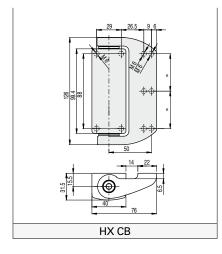
Dimensional drawings



Accessories See page 6/1 To purchase a product with a movable part on the left replace letter P with letter Q in the codes mentioned above. Example: HX BL22-2**P**N \rightarrow HX BL22-2**Q**N



Complementary hinges



Internal connections

L22 / H22 mechanical contact blocks Version with cable or M12 connector

connections	cable color	pin	
	black	1	2(•••)
NC	black-white	2	
NC	red	3	4 8
NC	red-white	4	
NO	brown	5	
	blue	6	
NO	violet	7	
NO	violet-white	8	
1	yellow-green	/	
-			

Version with cable or M12 connector connections cable color pin

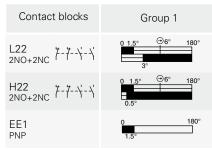
EE1 electronic contact block

A1	brown	1	2
IS1	red	2	3
A2	blue	3	
OS1	red/white	4	
O3	black	5	
IS2	purple	6	
OS2	black/white	7	
not connected	purple/white	8	

Legend

A1-A2 power supply IS1-IS2 safety inputs OS1-OS2 safety outputs 03 auxiliary output

Travel diagrams



The contact operating point indicated in the stroke diagrams can be adjusted to \pm 1°.

Legend

Legend	Contact closed / OS1, OS2, O3 outputs active
	Contact open / OS1, OS2, O3 outputs not active
\odot	Positive opening stroke

- ^	~~~		FIOC	
	LLL	:55U	ories	1

Article	Description
/F AC7032	Protection plug of regulation screw
	The plug is supplied with every hinge and must always be inserted after the operating point regulation. In case of loss or damage, the plug can be ordered separately.

Article VF CA••••M



All measures in the diagrams are in degrees

Description

Female wired connectors

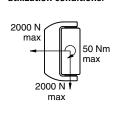
General data:

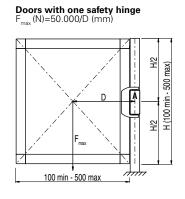
- Self locking ring nut
- High flexibility wire suitable for dynamic laying applications (copper class 6)
- Gold plated contact (resistance < 5 m Ω)
- Connector body in polyurethane

See page 6/2

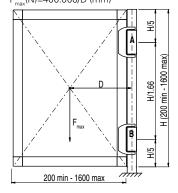
Max forces and charges HX

Admitted max charges independently from utilization conditions.

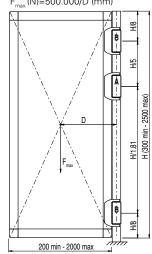




Doors with one safety hinge and one additional hinge $F_{max}(N)$ =400.000/D (mm)



Doors with one safety hinge and two additional hinges $F_{max}(N)$ =500.000/D (mm)



Legend

F _{max}	Force exercised by the door weight (N)
D	Distance from the door barycentre to the hinge axis (mm))

Safety hinge

A B Additional hinge

All measurements are in mm expressed.