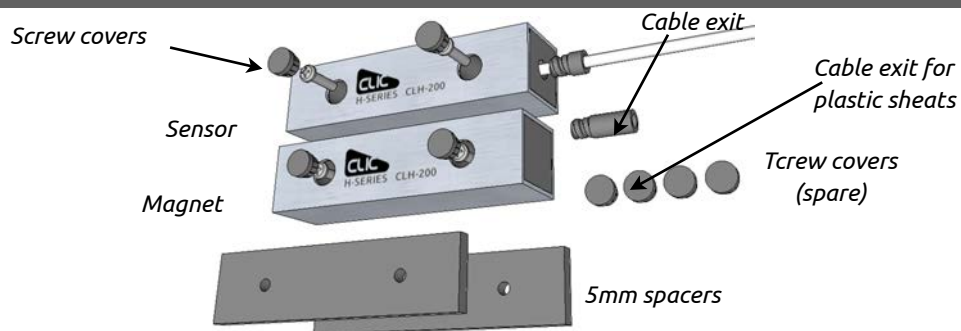




## 1. TECHNICAL FEATURES

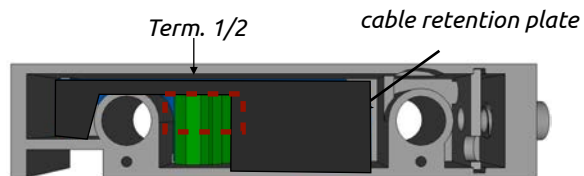
- \* Based on patented Magnasphere® technology, used under license
- \* Dimensions in mm magnet/sensor (l x h x d): 100 x 25 x 25
- \* Electrical connections:
  - Term. 1/2: primary contact, closed with magnet in secure position.
- \* Electrical parameters: (max., per circuit): 30VDC, 250mA, 0.25W
- \* Anodized aluminum case and ABS, full potting, suitable for external use
- \* Certified IMQ-SISTEMI DI SICUREZZA: Grade 3, Environmental Class II according to EN 50131-2-6:2008-09.

## 2. PACKAGE CONTENTS

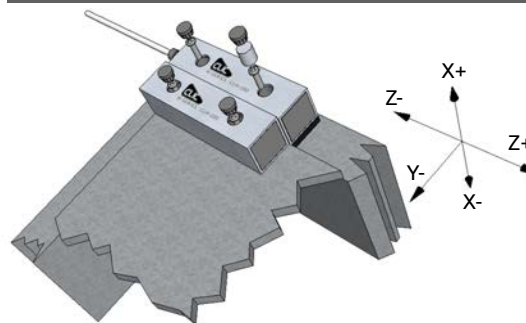


## 3. PREPARING THE SENSOR FOR INSTALLATION

- \* Check the functioning of the anti-tamper by inserting the provided magnet in the appropriate hole (left in the figure) and monitor the output of terminals 3/4
- \* Use the cable retention plate to fix the cable
- \* Assemble the sensor with the cable exit on either side of the aluminum case, unscrewing the two stainless steel screws on the back of the sensor, as shown in the picture.
- \* You can protect the cable with:
  - \* the short cable exit;
  - \* a plastic, 8mm internal diameter sheath which will fit exactly the long cable exit accessory;
  - \* the stainless steel, reinforced sheath TSec part no. CLH-2G.



## 4. IN-LINE INSTALLATION: WORKING GAPS IN mm



Axis	Action	Dist. no iron	Dist. iron
Z+	Removal	25*	24*
	Approach	16*	20*
Z-	Removal	23*	18*
	Approach	12*	14*
X+	Removal	22*	22*
	Approach	10*	15*
X-	Removal	22*	22*
	Approach	10*	15*
Y-	Removal	20	20
	Approach	12	15

\*Considered at nominal distance D=8mm

- \* The contact is shipped with the magnet already assembled for in-line installation.
- \* Position sensor and magnet according to the figure.
- \* Note that screw caps are anti-tamper, and should be positioned only after testing is complete. **ATTENTION: certification Grade 3 - EN\_50131-2-6:2008-09 decade if the screw caps are not correctly installed at the end of installation.**
- \* To obtain a maximum security installation, it is recommended that: the operating distance between sensor and magnet is minimised.

**ATTENTION: CLICK MAGNETS ARE VERY POWERFUL. BE CAREFUL IN THE ASSEMBLY SO THAT YOU DO NOT BE MALE, ESPECIALLY IN PRESENCE OF APPEARED OBJECTS.**



# High security anti-masking magnetic contacts CLH-200-M



## 5. PREPARING THE MAGNET FOR RIGHT-ANGLE INSTALLATIONS

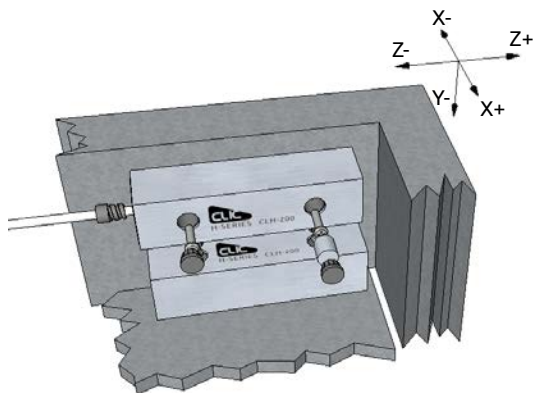


Magnet assembled for in line installation (default)



Magnet assembled for right-angled installation

## 6. RIGHT-ANGLED INSTALLATION: WORKING GAPS IN mm



Axis	Action	Dist. no iron	Dist. iron
Z+	Removal	25*	25*
	Approach	16*	16*
Z-	Removal	23*	18*
	Approach	12*	15*
X+	Removal	22*	22*
	Approach	10*	15*
X-	Removal	22*	22*
	Approach	10*	15*
Y-	Removal	20	20
	Approach	12	14

\*Considered at nominal distance D=8mm

- \* Re-assemble the magnet for horizontal installation (see previous section)
- \* Position sensor and magnet according to the figure.
- \* Note that screw caps are anti-tamper, and should be positioned only after testing is complete. **ATTENTION: certification Grade 3 - EN\_50131-2-6:2008-09 decade if the screw caps are not correctly installed at the end of installation.**
- \* To obtain a maximum security installation, it is recommended to minimise the distance between sensor and magnet.

## 7. OPTIONAL ACCESSORIES

- \* One way, stainless steel, self tapping screws part no. **CLH-1S**.
- \* For maximum security, we recommend installing the reinforced, stainless steel sheath part no. **CLH-2G10**.
- \* For installation on safes and armored panels, use accessory iron supports w/ one-way security screws, part. no. **CLH-2MF**, for easier installation.
- \* When it is absolutely necessary to work with a larger operating gap, use the accessory magnet, part no. **CLH-2XT**, adding it to the magnet as shown in the picture below. Note that in this case certification according to EN50131 will be void.



**ATTENTION: CLICK MAGNETS ARE VERY POWERFUL. BE CAREFUL IN THE ASSEMBLY SO THAT YOU DO NOT BE MALE, ESPECIALLY IN PRESENCE OF APPEARED OBJECTS.**



TSEC S.p.A.  
www.tsec.it  
info@tsec.it



EN50131-2-6  
GR 3 - CL II