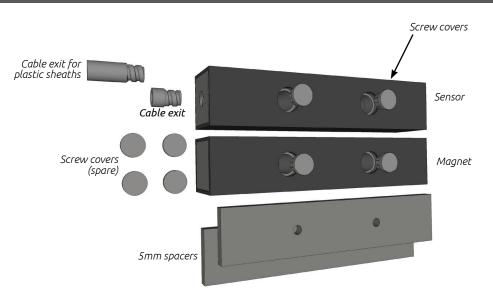


High security anti-masking magnetic contacts w/ Coded Sensor Technology CST-03-M-r models, surface mount, screw terminals

1. TECHNICAL FEATURES

- * Based on patented Magnasphere® anti-masking technology, used under license
- * Coded Sensor Technology is a TSec patented design
- * Passive device with matching coded sensor/magnet pairs
- * Large operating gap which makes it ideal on any type of gate or large door.
- * Size in mm magnet/sensor (l x h x d): 120 x 25 x 25
- * Screw terminals:
 - * Terminals 1/2: primary alarm
 - * Terminals 2/3: magnetic tamper on main active face (wrong magnetic code)
- * Electrical parameters: (max., per circuit): 30VDC, 250mA, 0.25W
- * Anodized aluminum case, full potting, suitable for external use.
- * Operating gaps:
 - * Make distance: 20mm (designated as "D" in the following figures)
 - * Axial gap: 10mm (designated as "X" in the following figures)
- * Note that there is no minimum gap or forbidden zone
- * Cerified Grade 3, Env. Class II according to EN 50131-2-6

2. PACKAGE CONTENTS



4 stainless steel one-way security screws







EN50131-2-6 GR. 3 Cl II

3. TAMPERING DETECTION SYSTEM: CODED SENSOR TECHNOLOGY

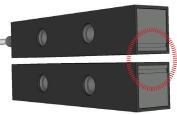
- * Only a magnet that is specifically coded for a particular type of CST sensor will be able to close the primary circuit (1/2) at the specified make distance.
- * CST magnets different from the coded one, or magnetic tampering attempts in the operating gap between the sensor and the reference magnet will open the tamper circuit (2/3). **This circuit should be monitored 24/7/365**

4. PREPARING THE SENSOR FOR INSTALLATION

- * Remove the aluminum cover by unscrewing the two screws on the back
- * Connect the sensor to the screw terminals:
 - * Terminal 1: primary alarm (closed w/ magnet in secure pos.)
 - * Terminal 2: magnetic tamper (wrong magnetic code, closed when no magnetic tamper is present)
 - * Terminal 3: common
- * The cable can be protected either by screwing into the cable exit hole one of the following:
- * short cable exit (no protection, included in the product's package);
- * long cable exit (included in the product's package), suitable for acting as terminal for any sheath with 8mm internal diameter:
- * dedicated reinforced stainless steel sheath (part no. CLH-2G10), that can be locked in place by piercing it with pliers;

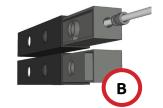
5. SWAPPING RIGHT/LEFT CABLE EXIT

- * Coded Sensor Technology requires that sensor and magnet are aligned according to a specific, pre-defined scheme: the installation is correct only when the two indentations on the side of sensor and magnet are aligned exactly as shown in the picture on the right.
- * The sensor is supplied with the cable exiting on the left side.
- * In order to use the right side cable exit:
- * Disassemble both sensor and magnet by removing the four small countersunk screws on the back of the housings, and then slide the ABS skeletons out of the aluminum cases (fig.A).
- * Slide the sensor and the magnet out of the aluminum cases, rotate them 180 degrees, and put them back (fig.B).
- * Reassemble sensor and magnet. Make sure that the two indentation appear exactly as shown in figure C.



Sensor and magnet with left cable exit (default). Note the two indentations on the right side of the ABS shells.







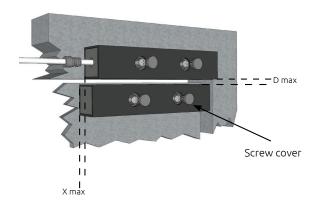


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TSec is a certified manufacturer of security products containing Magnasphere technology
TSec products are covered by national and international patents, other patents are pending
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High security anti-masking magnetic contacts w/ Coded Sensor Technology CST-03-M-r models, surface mount, screw terminals

6. IN-LINE INSTALLATION



Mounting distance

Axis	Iron Mount.	No iron Mount.
D	<=17mm	<=17mm
x	<=10mm	<=10mm

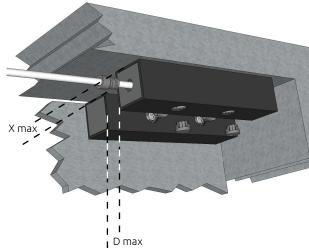
Activation distance

Axis	Iron Mount.	No iron Mount.
D	(21+-5)mm	(21+-5)mm
X	(13+-2)mm	(13+-2)mm

* Position sensor and magnet according to the figure, making sure that the two indentations on the sides of the enclosures are right next to each other, as shown in the previous chapter.

7. RIGHT-ANGLED INSTALLATION

 Position sensor and magnet according to the figure. Make sure the two indentations on the plastic enclosures of sensor and magnet are on the same side







EN50131-2-6 GR. 3 Cl II

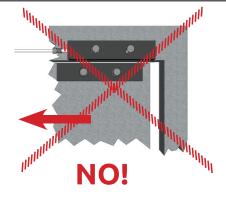
Mounting distance

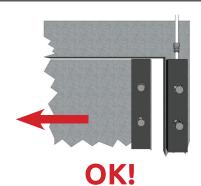
Axis	Iron Mount.	No iron Mount.
D	<=8mm	<=8mm
X	<=5mm	<=5mm

Activation distance

Axis	Iron Mount.	No iron Mount.
D	(19+-10)mm	(19+-10)mm
X	(11+-5)mm	(11+-5)mm

8. INSTALLATION ON SLIDING DOORS





* Installation on sliding doors requires mounting sensor and magnet as shown in the picture above on the right. In practice, care must be taken so that when the door is opening and closing the magnet does not slide from/to the sensor.

10. SECURITY RECOMMENDATIONS

- * Note that screw caps are anti-tamper, and should be positioned only after testing is complete.
- * If necessary, use the supplied 5mm spacers to better align sensor and magnet.
- * Note that there is no minimum operating gap: you can install magnet and sensor as close to each other as needed.
- * To obtain a maximum security installation, it is recommended that:
- * the operating distance between sensor and magnet is minimised;
- * sensor and magnet are installed with one-way security screws, such as the ones **included in the package**.

9. OPTIONAL ACCESSORIES

- * One way, stainless steel, self tapping screws part no. **CLH-1S (included)**.
- * 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. **CST-0MF**, for easier installation.

