

	B-TRH	B-MAG
Operating characteristics		
Transmission type	Periodic temperature and humidity measurement	Magnetic event counter Magnetic event detector: Immediate transmission upon change of sensor state
Frequency	2.4 GHz - Bluetooth Low Energy 4.0/4.2	
Electromagnetic field	< 0.5 V/m at 3 cm according to EN 62311	
Output Power	Up to +4 dBm (configurable)	
Range	Up to 500 meters open field (+4dBm)	
Transmission Period	Configurable from 0.1 sec to 10 sec	Configurable from 0.1 sec to 10 sec
Battery characteristics		
Power supply	3 VDC - Internal Lithium Battery	3 VDC - Internal Lithium Battery
Battery Life	Up to 16 years*	Up to 10 years*
Battery Level	Up to 500 meters open field (+4dBm)	
Measurement performance		
Range	Temperature: -40°C to +85°C Humidity: 0% to 100%	-
Resolution	Temperature: 0.01°C Humidity: 0.01%	-
Accuracy	Temperature: +/- 0.4°C Humidity: ± 5% (40% ... 100% RH)	-
Mechanical characteristics		
Casing materials	POM-C Heraform® R900 Compatible with food products (90/128/EEC)	
Weight	41 g	
Protection Index	IK06 according to EN 61010-1 §8.2.2	
Environmental characteristics		
Protection Index	IP 55	IP 68
Operating temperature	-40°C to +85°C	
Operating altitude	< 2000 m	
Use	Indoor	
Certifications		
Europe	CE: EN 300 328 / EN 300 330 / EN 301 489 / EN 61010	
Singapour	IMDA Standards [N4812-20]	-
RoHS	Yes	

* Refer to the battery life curves in instruction manual for more information.



B-TRH and B-MAG Bluetooth sensors are not designed to be placed on busbars and must not be in contact with live bare parts.

Be careful not to handle 2 magnets close to one another. Their attraction could cause injury and could damage nearby materials.



Full user manual:
[www.socomec.com/
operating-instructions](http://www.socomec.com/operating-instructions)

www.socomec.com

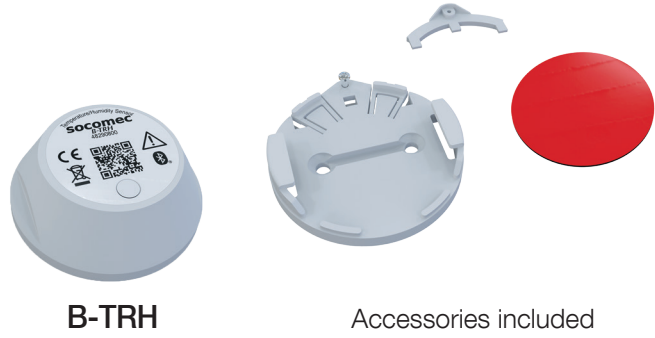
Dimensions in/mm



Socomec Resources Center
To download, brochures, catalogues
and technical manuals

BLUETOOTH LOW ENERGY SENSORS

B-TRH (Temperature/Humidity)
Ref. 4829 0800

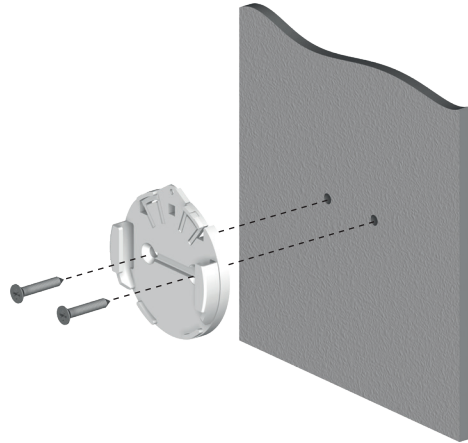


B-MAG (Magnetic contact)
Ref. 4829 0801

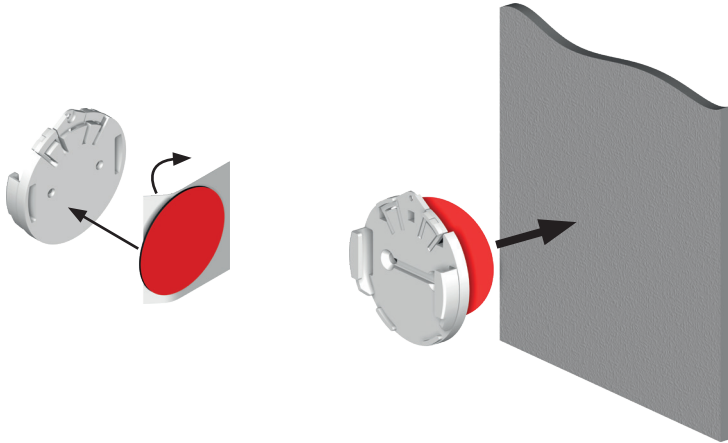


1 Fixing the holder to a back plate

1a With screws



1b With the double sided sticker

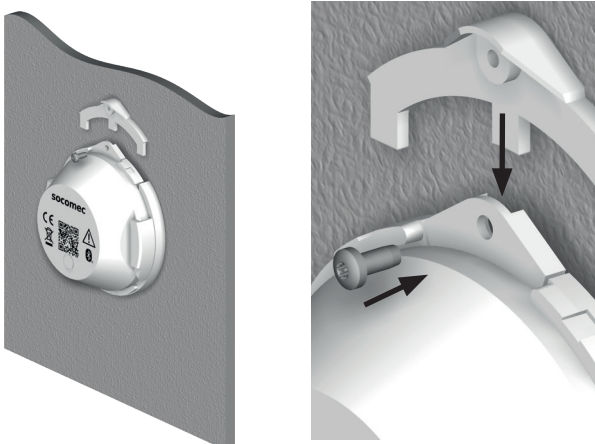


2 Fixing the B-TRH / B-MAG sensor

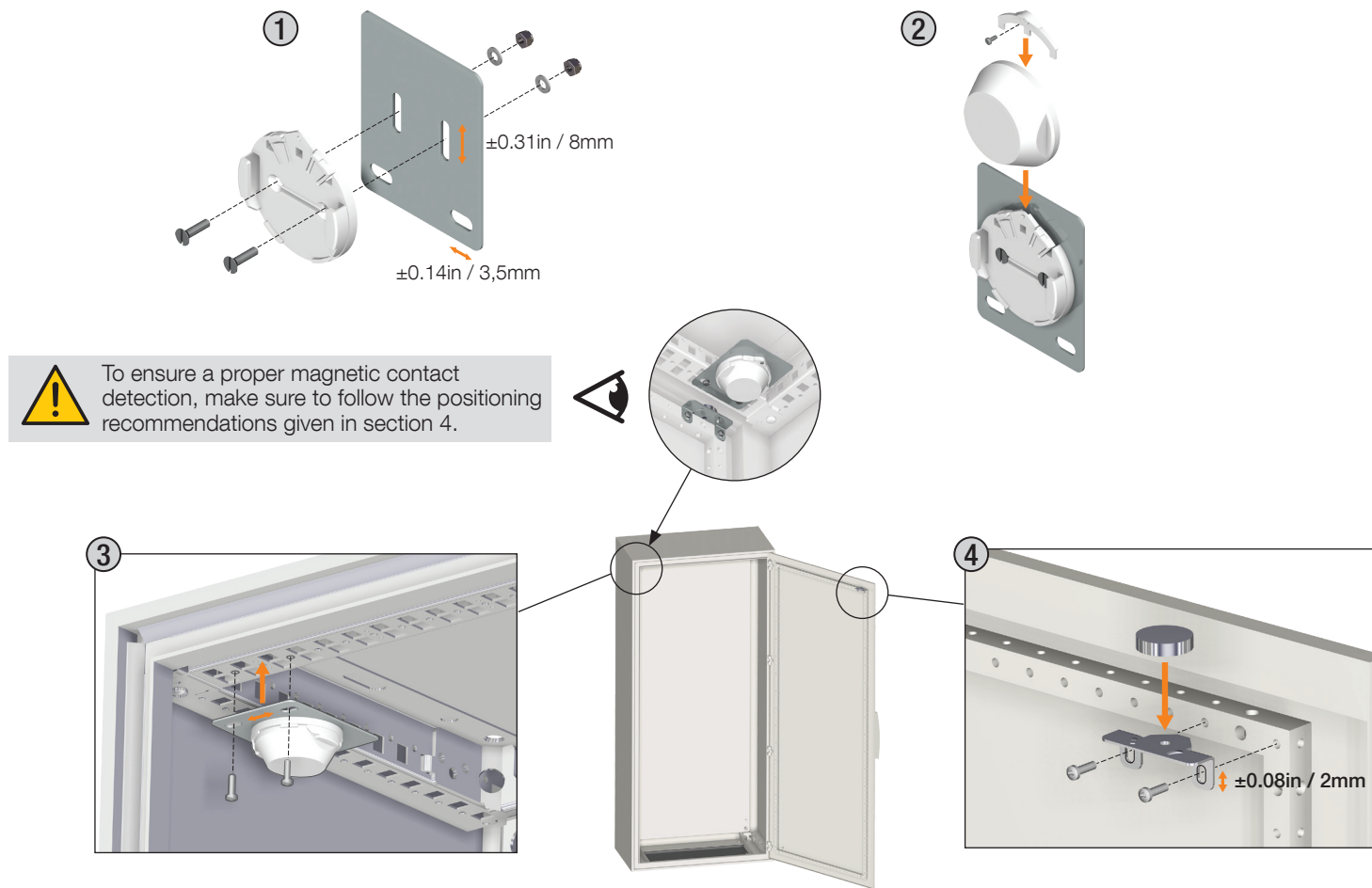
2a Inserting the sensor into its holder



2b Locking the sensor

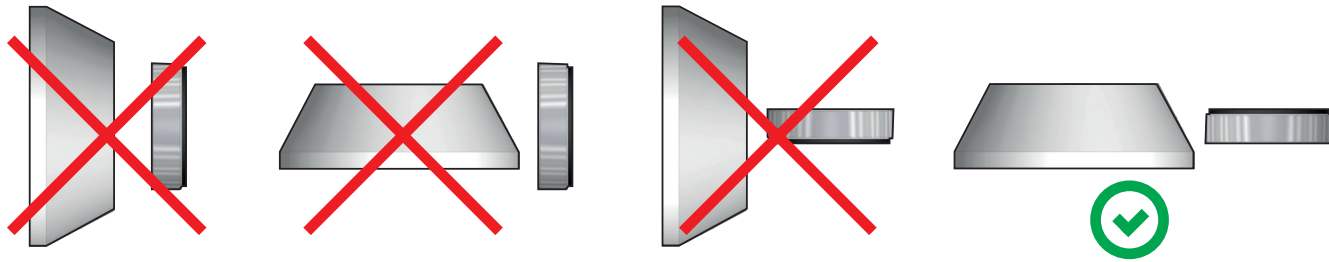


3 B-MAG accessories for installation inside electrical panel

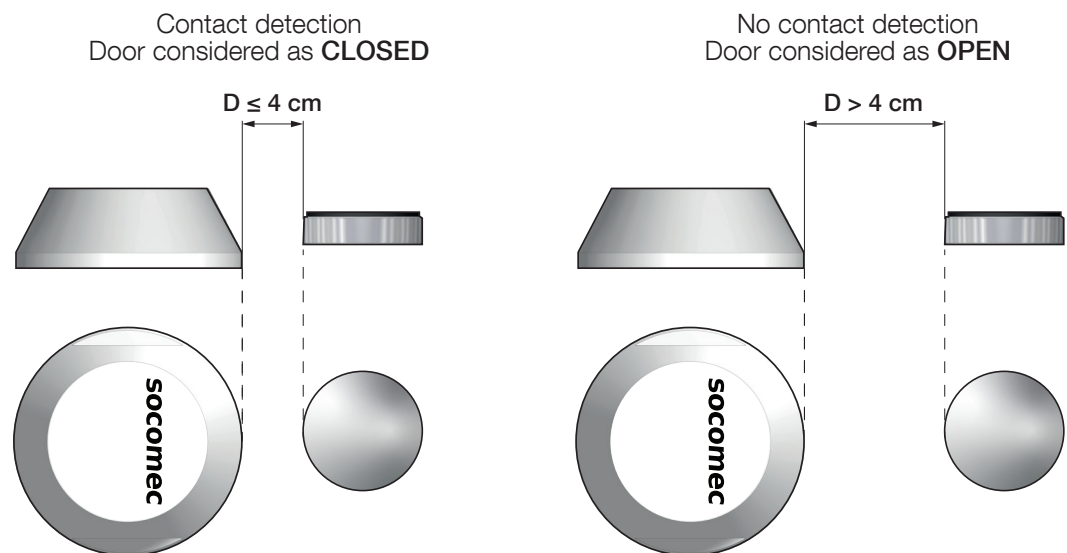


4 B-MAG and magnet positioning

a. Position of magnet in relation to B-MAG sensor



b. Maximum distance for magnetic contact detection



5 Association of Bluetooth sensors with DIRIS Digiware D-xx / M-xx

Option 1: Local association from HMI



⚠ It is recommended to turn off the Bluetooth of neighboring cell phones to improve the scanning and association process.

Option 2: Remote association from webserver

