	PRODUCT FEATURES	DETECTOR OPENING			
<image/> <section-header></section-header>	The SH-MAG is an advanced, fully supervised low-current wireless magnetic door/window contact that includes a FW2 transceiver for reliable system operation. Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT Ultra Low current consumption Immunity to attenuation feature Powered by 2 Lithium batteries 1.5V Size AAA Contact Open/Close transmission Tamper Open/Close transmission Battery life up to 5 years Operating Frequencies: 868-869MHz / 916-917MHz Event Transmission: Alarm Tamper Open/Close Supervision Battery status Bi-Color LED indications Up to 500m transmission range in open space Remotely configurable	Figure 1 Pull out the delector cover	Figure 2 Remove the batteries cover		
P/N 7103358_A BATTERIES INSERTION	DETECTOR MOUNTING	Pull out the detector cover	LEARNING PROCESS		
Figure 3 Batteries can be replaced by the user Battery type: 2 Energizer L92 Lithium battery 1.5V Size AAA	Figure 4 Place the Magnet unit near this marking	$\begin{tabular}{ c c c c c } \hline 10 & mm & figure 1 & f$	 For pairing process, please refer to your control panel instructions. <u>To pair your device with Shepherd™ panel, please proceed as follows:</u> 1. Enter in installing mode via the "Installer Webpage" 2. Go to "Zones" and select the zone you want to learn 3. Enter the unique radio device ID, and then send the configuration to the control panel 4. Place a battery as instructed in Figure 3 and wait until the Red LED stops blinking. 5. The device should register to the Control Panel. 6. When registration process is successfully completed, the Green LED will constantly light ON for 3 seconds and then turn OFF. 7. If registration process failed, the Red LED will blink. Remove the battery, wait for few seconds (~10sec) and repeat the learning process. 		

DETECTOR TESTING	BATTERY REPLACEMENT	SPECIFICATION		STANDARDS APPROVALS
Motion Transmission Test Removing and placing of magnet unit enables the alarm transmission test feature. Check that the transceiver unit indicates at least 2 events – one for removing and one for placing the magnet. To check this function it is necessary to verify that the FREEWAVE2 control panel displays the following massage: Zone # X Open Tamper Transmission Test Pressing and releasing the tamper (push button) enables the TAMPER transmission test feature. Verify the Control Panel indicates "Zone Tamper open" and Red LED is ON. EVENT TRANSMISSION SUPERVISION – A periodical transmission (configurable) ndicating detector's presence. ALARM – Alarm transmission triggered by the device indicating opening detection. The Red LED will blink once. LOW BAT – Whenever the battery reaches the low level (3V), a Battery Level (2.7V) the device will stop functioning and the Red LED will blink for 10 seconds and then turned Off. TAMPER – Whenever the cover is removed from the device or the device is tear off from the wall, a message will be transmitted with "Tamper ON" signal will be transmitted.		Detection Method Communication Protocol Operating Frequencies Identification Events Transmission Supervision Time Transmission Range Battery Battery life Current Consumptions Tamper Switch Operating temperature Dimensions Weight (incl. battery)	Magnetic Field Sensor Freewave2 [™] Two Way ISM GFSK with 5 frequencies & LBT 868-869MHz / 916-917MHz Unique ID serial number – 24 bit Alarm, Tamper, Supervision, Low Bat, Keep Alive. 7 min by default (configurable between 1 to 30 min) 500m in open space 2 Energizer L92 Lithium batteries AAA 1.5V Up to 5 years Standby ~5 μA Receive mode ~24 mA Transmit mode ~50 mA Transmit power <14dBm Low Bat 3V Cut Off 2.7V Front Cover Removal -10°C to +55°C 100mm x 26mm x 16mm 50gr.	The SH-MAG conforms to the essential requirements set out by: • RED directive: 2014/53/EU • EMC directive: 2014/30/EU • Low Voltage directive: 2014/35/EU Harmonized Standards applicable to this products are: • EN300220-2 • EN300220-1 • EN301489-3 • EN301489-3 • EN301489-1 • EN60950-1 • EN50130-4 • EN50131-6 • EN50131-6 • EN50131-7-3 Security Grade 2 Environmental Class II Additional Standards and Directives applicable to this product are: • RoHS directive: 2002/95/EC • EN50131-2-6
WARRANTY POLICY CERTIFICATE Crow warrants these products to be free from defects in materials and workmanship week and year whose numbers are printed on the printed circuit board inside these I	under normal use and service for a period of 24 months from the last day of the products.			
Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are form time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products proved to be defective in materials or workmanship under the Purchaser. This Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions. There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereol. This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warrantly, contractual, in tor to or therwise. In no case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability hatsoever.		sales@crow.co.il support@crow.co.il www.thecrowgroup.com		

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These instructions supersede all previous issues in circulation prior to December 2017