

EMCSA is an energy-harvesting wireless magnet contact sensor for EnOcean systems. Powered by a solar cell, EMCSA works absolutely maintenance-free. An integrated energy store allows operation for several days in total darkness. In dark surroundings, a coin cell battery can be retrofitted.

The small housing can easily be mounted to windows or door frames or at cabinets using the included double-sided adhesive pad. The ultra-slim magnet has a preassembled adhesive pad.

EMCSA supervises an integrated reed contact and reports every status change immediately (open<>closed). In addition a sign of life signal is send at regular intervals. EMCSA provides the option to use Enhanced Security mode with encrypted communication and Rolling Code.



Type EMCSA Ordering Code S3001-C320

Primary power supply	Solar harvest	Solar harvesting of indoor light (incandescent or fluorescent)		
Backup power supply		Optional ba	ttery (CR1225, not included)	
Radio standard / frequency / tran	smission power	EnOce	an / 868.300 MHz / +5 dBm	
Antenna / Transmission range	Internal helix antenna / 300m free field, typ. 30 m indoor			
EnOcean module integrated			STM 320	
EnOcean Equipment Profile (EEP)			D5-00-01	
Supported security algorithms		V	AES 128, CMAC, RLC counter	
Reed contact		1 x intern	al (marking on housing side)	
Charge time before linking (1)		Typ. 2.5n	nin @ 400 lx / 4 min @ 200lx	
Sustain condition for battery free	operation	min. 400 lxh per	day (signs-of-life only, 25°C)	
Operation time in darkness (2)			Typ. 6 days	
Teach-in telegram trigger and indi	cator		Pushbutton and LED	
Sign-of-life transmission	Cont	act status update	every around 2030 minutes	
Dimensions of unit housing			76.2 x 22 x 15 mm	
Dimensions of housing adhesive			50 x 18 x 0.8 mm	
Dimensions of magnet (incl. adhesive)		20 x 10 x 1.5 mm		
Housing, color and material		White, sir	nilar to RAL 9010, PC/ABS	
Operating conditions	-20+60 °C, 093	3% r.h., non-conde	nsing, IP 40, indoor use only	
Storage conditions	Recommende	ed: +1030 °C, <6	50% r.h., max. 36 months ⁽³⁾	
Approvals			CE, RED	
Single unit pack (sensor unit, magnet, adhesive, instructi		ctions)	Card box 32 x 32 x 99 mm	
Minimum order quantity / shipping box		50 units, card box	232 x 176 x 174 mm, 1.8 kg	

Note 1: Charge time at 25°C from empty energy store until a teach-in telegram can be sent Note 2: Operation time at 25°C is 6 days from a fully charged energy store with telegrams sent on average every 25 min (signs-of-life). Operation time is 3 days from a fully charged energy store if telegrams are sent on average every 6 minutes (10 contact events per hour)

Note 3: After 36 months in darkness the energy storage should be recharged to keep storage performance