EMCSA / EMCSU / EMCSJ EnOcean Magnet Contact Sensor



EMCSx is a wireless magnet contact sensor for EnOcean systems. It is solar powered and maintenance-free.

The small housing is easy to be mount on windows, doorframes, or cabinets by using the included mounting plate or adhesive pad. The ultraslim magnet has a preassembled adhesive pad.

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



Type
EMCSA

EMCSA-G
EMCSU
EMCSJ

Ordering Code S3001-C320 (single packs) S3001-T320 (tray pack) S3001-G320 (tray pack) S3051-C320 (single pack)

S3061-T420 (tray pack)

Primary power sup	ply	indoor light, min. 50 lx
Backup power supply		Optional battery (CR1225 not included)
Radio standard / fi	requency / transmission power	EMCSA: EnOcean / 868.300 MHz / +6.4 dBm,
EMCSU: EnO	cean / 902.875 MHz / +99 dBµV/m	, EMCSJ: EnOcean / 928.350 MHz / 0 dBm
Antenna / Transmission range Internal helix antenna / 300m free fi		nelix antenna / 300m free field, typ. 30 m indoor
EnOcean Equipmen	nt Profile (EEP) D5	-00-01, SIGNAL 0x0E (Entering Transport Mode)
EnOcean module in	itegrated STM 320 (EM	CSA), STM 320U (EMCSU), STM 420J (EMCSJ)
Supported security	algorithms	VAES 128, CMAC, RLC counter
Reed contact		1 x internal (marking on housing side)
Start-up time with	empty energy storage	typ. <2.5 min @ 400 lux, 25°C
Sustain condition f	or battery free operation	min. 400 lx h per day (signs-of-life only, 25°C)
Operation time in c	larkness > 10 days (energy	storage fully charged, signs-of-life only, 25° (1))
Teach-in telegram trigger and indicator Pushbutton and LE		
Sign-of-life transmission Contact status update every aroun		ntact status update every around 2030 minutes
Dimensions of unit with mounting plate		79 x 23.8 x 18.6 mm
Dimensions of unit without mounting plate		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	White similar RALS	0010 (EMCSx), Grey similar RAL7016 (EMCSA-G)
Operating conditions -20+60°C ⁽¹⁾ , 093% r.h., non-condensing, IP 40, indoor use or		
Storage conditions	Recommended: +1030 °C, <	60% r.h., max. 36 months in transport mode (2)
Approvals El	J/UK: CE/UKCA (EMCSA), US/CA: F	CC/ISED (EMCSU), JN: ARIB STD-T108 (EMCSJ)
Single unit packagi	i ng 50 single	unit card boxes each 32 x 32 x 99 mm contain:
	sensor unit,	mounting plate, magnet, adhesive, instructions
		ort card box 232 x 176 x 174 mm, total 2.0 kg
Tray packaging	•	: sensor unit, mounting plate, magnet, adhesive
	7 trays stacked	l in card box 232 x 176 x 174 mm, total 2.2 kg

Note 1: Following effects lead to shorter dark time operation: long time exposure of the unit to temperatures higher 30°C will gradually degrade the energy storage performance over life time. Lower temperatures than 0°C will noticeably reduce capacity of energy store, but temporarily only.

Note 2: Recharge energy storage after 36 months in total darkness to maintain its performance.