



WiCAB-C Wireless safety system for sliding doors with multi-turn absolute encoder



FEATURES

- Radio system replaces the slower and more expensive rope system
- External antenna for installation of the mobile unit in door profiles
- Fast and easy installation
- Compatible with all common door drives
- Safe use also in multi-door-applications: each mobile unit has its own radio address
- Performance guarantee by clearly defined radio link
- Fast reaction on activation of safety edge allows faster door operation or smaller profile of the safety edge
- Safety Category 2 (Performance Level D)





TECHNICAL DATA

WiCAB-C Stationary unit – multi-turn

Dimensions (W x H x D)	92 x 70 x 42 mm without antenna, plug and connections
Weight	approx. 220 g
Protection class	IP 65
Power supply	24V DC +/- 10% typical 65 mA
Position detection	Multi-turn, contactless read
Resolution	13 Bit / rotation 15 Bit rotation counter
Max. allowed rotation speed	max. 6.000 rotations / Min.
Radio system ¹	2.4 GHz (max. 1mW); communication with mobile unit via external antenna
Digital outputs*	Output 1 (safety edge**) Output 2 (digital output) (alternatively safety edge**) Output 3 (digital output)
Interface	RS485 (19.2 kBaud)
Temperature range	-40 °C up to 70 °C

¹ Transmission time (input mobile unit – control unit) typ. < 10ms;
Range of the radio system: typical > 10m

* Function of the outputs parameterized in the door control unit

** Safety edge 8k2 with testing

WiCAB-C Mobile unit

Dimensions (W x H x D)	131 x 73 x 44 mm
Weight	190 g (with batteries)
Protection class	IP 65
Supply*	1.5...5.0 V , 3.6 V Lithium battery recommended, typical < 8.5mA at 3.6V active / 0.5mA passive
Battery life	approx. 2 years (using 3.6V Lithium battery)
Digital inputs**	4 (individually configurable)
Operating frequency	2.4 GHz
Possible battery voltages	3.6V Lithium (recommended) 1.5V Alkaline
Temperature range	
Operation	-40°C up to 50°C (Lithium battery) -20°C up to 50°C (Alkaline battery)
Storage (without battery)	-40°C up to 85°C

* Battery is not included

** Inputs for NC/NO (potential free contact), electrical safety edges with 8k2 or 1k2 resistor, flap door switch 8k2, visually dynamic safety edge (Low Power)

System components / Order descriptions:

WiCAB-C Stationary unit – multi-turn

TST PD-FSAS-B

Multi-turn absolute encoder with integrated wireless safety system incl. housing for installation at the motor shaft or at the transmission output of the motor.

WiCAB-C Mobile unit

TST FSBM-B

Accessories:

Battery for mobile unit (VPE 30)

TST FSBM-WiCAB Battery