



## WiCAB-B

### Wireless safety system for industrial doors with single-turn absolute encoder



#### FEATURES

- Radio system replaces the failure-prone spiral cable
- 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
- The profile of safety edge must not be changed





## TECHNICAL DATA

### WiCAB-B Stationary unit – single-turn

Dimensions (W x H x D)	76 x 76 x 43 mm without terminal block
Weight	75 g
Protection class	IP 20
Power supply	10...24V DC typical 80 mA, max. 100 mA
Position detection	360° (contactless read, mechanically rotated)
Resolution	12 Bit
Max. allowed rotation speed	max. 1 rotation / s
Radio system <sup>1</sup>	2.4 GHz (max. 1mW); communication with mobile unit via external antenna
Digital inputs	2x emergency (potential free opener) 1x emergency (PTC resistor*) 1x 24V-supply** (optional)
Digital outputs***	1x emergency potential free, loadable up to 40V / 0.2A Output 1 (safety edge****) Output 2 (alternatively as safety edge****)
Interface	RS485 (19.2 kBaud)
Temperature range	
12V supply	-20 °C up to 70 °C
24V supply	-20 °C up to 60 °C

- 1 Transmission time (input mobile unit – control unit) < 5ms;  
Range of the radio system: typisch > 10m  
\* alternatively: potential free opener  
\*\* to raise the digital level  
\*\*\* Function of the outputs parameterized in the door control unit  
\*\*\*\* Safety edge 8k2 with testing

### WiCAB-B Mobile unit

Dimensions (W x H x D)	131 x 73 x 44 mm
Weight	190 g (with batteries)
Protection class	IP65
Power supply	1.5V up to 5.0V, typical <8.5 mA at 3.6V active / 0.5 mA passive
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

- \* 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-B Stationary unit – single-turn

TST PE-FSBS-A

Single-turn absolute encoder with integrated wireless safety system incl. housing for installation on the limit switch of the door drive.

#### WiCAB-B Mobile unit

TST FSBM-A

#### WiCAB antennas for stationary unit

- TST FSBS-A04 with 0.4m supply
- TST FSBS-A10 with 1.0m supply
- TST FSBS-A25 with 2.5m supply

### Accessories:

#### Battery for mobile unit (VPE 30)

TST FSBM-WiCAB battery

#### Bracket for antenna

TST FSBS-A antenna bracket

FEIG ELECTRONIC reserves the right to change specification without notice at any time.  
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