

TRICON

# TST FUZ2-C/-CX Door control unit with integrated frequency converter for high speed doors



# FEATURES

- → Smooth starting and braking offers maximum material protection and a long product life cycle
- → Fast startup speeds processes and reduces waiting times
- → Easy installation due to extensive pre-settings for standard door systems and self-learning automatic configuration
- → Clearly visible diagnostic display
- → Model inspected safety conception
- → Slots for additional modules
- → Operation of three phase AC motors up to 1.2 kW









## ADDITIONAL FUNCTIONALITY

- Voltage range 1~ 110 V<sub>AC</sub>...240 V<sub>AC</sub> +/-10%
- Conformity to latest standards (TÜV, CE)
- · 24 V safety low voltage according to EN 60335-1
- . ESD resistance up to 25 kV
- Integrated control electronic for several safety edges (1k2 / 8k2 and optical systems)
- Slots for 2 channel radio, 2 channel induction loop detector or 6 channel safety edge evaluator
- Connection for I/O extension card (for 6 inputs, 7 outputs, clock, 2 channel detector, external display, RS485- and CAN interface)
- Connection for interface module TST RFUZ-COM for parallel operation of two doors
- · Mechanical limit switch operation
- · Incl. CEE plug as main switch
- · Colored plug in terminals for all control functions
- Up to 16 digital inputs and 2 relay outputs are factory adjusted for standard applications – various special functions can be adjusted by parameter: functionality, operation mode, contact, warning- and hold open time, direction, diagnostic texts for plaintext display,...
- · 2 safety edge evaluators integrated ex works
- · Optimized operation of WiCAB radio safety system
- PC toolbox for advanced configuration and diagnosis

#### **TECHNICAL DATA**

Order description TST FUZ2-C (0.75 kW, 5 A) TST FUZ2-CX (1.2 kW, 8 A)

Dimensions (W x H x D) 182 x 328 x 102 mm

Housing Plastic

Power supply 230  $V_{AC}$  +/-10% / 50-60 Hz, 1~110-240  $V_{AC}$  +/-10% / 50-60 Hz

(permitted range)

Power consumption maximum of 30 W fully equipped

Motor connection for 3~ asynchronous motors up to

0.75 kW / 5 A resp 1.2 kW / 8 A; with high overload resistance for

doors

Operation frequencies 6-200 Hz (separate adjustable

frequency ramps for all door

operating modes)

Control voltage / 24 V<sub>DC</sub>, safe

Supply external devices 24 V<sub>DC</sub> / 500 mA, short-circuit-proof

Drive output

For drives up to 0.75 / 1.2 kW at 230 V motor current at 100% duty cycle and 40°C environmental temperature: 3 A / 5 A

For drives up to 0.75  $\,$  / 1.2 kW at 230 V motor current at 40% duty cycle and 50°C environmental temperature: 5 A / 8 A

Brake chopper and max. 1.5 kW for max. 0.5 sec., resistance repetition rate min. every 20 sec.

Temperature range

Operation -20°C up to 50°C Storage -20°C up to 70°C

Humidity up to 95%, not condensing

Noise emission < 20 dB (A)

Protection type IP54 (in the housing)
Protection class Protection class I
Weight approx. 5 kg

#### STANDARD CONFORMITY

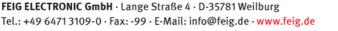
Doors EN 12453 / EN 12978 Voltage EN 60335 / EN 60335-1 EMC EN 50081 / EN 50082

### **APPROVAL**

TÜV Type examination

FEIG ELECTRONIC reserves the right to change specification without notice at any time. Stand of information: December 2014.









#### **Assembly TST FUZ2-C/-CX:**

#### · 2-channel induction loop detector or 6 channel safety edge evaluator (8k2) 4-times 7-segment User interface · Diagnostic, status information • Parameter adjustment Motor up to 0.75 kW at 230 V (-C) • Service, cycle counter (U, V, W) • Fault memory Motor up to 1.2 kW at 230 V (-CX) (U, V, W) Positioning by • Mechanical limit-switches Power supply for external devices • Absolute encoder · line, fused on board • 24 V safety low voltage (up to 250 mA, short-circuit-proof) 2x Relay (potential free changeover contact) Integrated • Position status safety edge evaluation · Warning light / traffic lights • Resistor systems Fault · Optic-dynamical edges Door lock · Electrical edges Light control • Pneumatical edge incl. test Brake • ... Power supply 24 V inputs 1...10 110...240 V AC Adjustable by parameters, e.g.: (L, N, PE) • Ext. Open-, Stop-, Close commands · Light barriers · Additional safety commands • One channel, input series · Cross traffic control Door lock • Dead man / automatic operation

• Mechanical limit-switches

Plug-in modules (accessories)2-channel radio receiver

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