

TRICON

TST FUZZ2-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





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 / Supply external devices	24 V _{DC} , safe 24 V _{DC} / 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
resistance** max. 1.5 kW for max. 0.5 sec.,
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.

ADDITIONAL FUNCTIONALITY

- Voltage range 1~ 110 V_{AC}...240 V_{AC} +/-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

Assembly TST FUZZ2-C/-CX:

4-times 7-segment

- User interface
- Diagnostic, status information
- Parameter adjustment
- Service, cycle counter
- Fault memory

Positioning by

- Mechanical limit-switches
- Absolute encoder

Integrated safety edge evaluation

- Resistor systems
- Optic-dynamical edges
- Electrical edges
- Pneumatical edge incl. test



Plug-in modules (accessories)

- 2-channel radio receiver
- 2-channel induction loop detector or 6 channel safety edge evaluator (8k2)

Motor up to 0.75 kW at 230 V (-C)
(U, V, W)

Motor up to 1.2 kW at 230 V (-CX)
(U, V, W)

Power supply for external devices

- line, fused on board
- 24 V safety low voltage (up to 250 mA, short-circuit-proof)

2x Relay

(potential free changeover contact)

- Position status
- Warning light / traffic lights
- Fault
- Door lock
- Light control
- Brake
- ...

Power supply
110...240 V AC
(L, N, PE)

24 V inputs 1...10

Adjustable by parameters, e.g.:

- 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
- ...