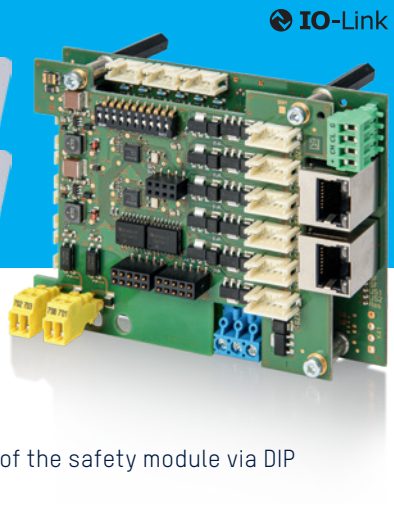
FEIG

TST RCCA-B / -C / -D

COMMUNICATION MODULE FOR FEIG DOOR CONTROLLERS WITH INTEGRATED SAFETY MODULE

- Extension board for TST FUxF door controllers
- Safety Module with PROFIsafe interface
- PROFINET switch for connecting additional PROFINET devices
- Safe inputs (FDI) for external safety sensors
- Safe output contact (FDO) for safely stopping the door controller
- Connection of up to four IO Link devices
- Further six inputs (DI) without safety functionality
- Control of the door system



FEIG door controllers for machine guard doors

Machine guard doors are mostly high-speed doors that are designed for automated manufacturing processes. They offer optimal protection for employees.

To make this possible, the doors are is equipped with safe sensors (e.g. Cat. 4, PL e, SIL 3) which, among other things, monitor whether the safety door is closed and there is no person at the side of the automated manufacturing process. The sensor information is sent to a higher-level process control system, which starts the manufacturing process depending on the feedback from the transmitting sensor.

The FEIG door controller TST FUZ2 and TST FUxF in combination with the communication module TST RCCA allow via PROFINET to control the door system centrally as well as to bundle the information from the sensors and the door system and to transmit them to the orderly facility control. This controls the door based on this information by using the same interface.

Additional features:

- PROFIsafe / F address of the safety module via DIP switch adjustable
- An IO-Link gateway implements the IO-Link interfaces to PROFINET
- Six input signals (DI) are implemented to PROFINET
- LEDs in specific arrangement and colors show the operating status of the module
- Power supply via an external 24 VDC connection
- Door information with status and position
- Backup and Restore (simple control replacement – I-PAR client)

Technical data TST RCCA-B

Dimensions (W x H x D)	84 x 118 x 26.1 mm (with plug-in block terminals)
Protection class	open frame
Supply voltage	19.2 / 24 / 30 VDC (DIN EN 61131-2)
Supply type	SELV
Power consumption	2.4 W ... 240 W
Current consumption	unloaded 85 mA / loaded max. 10.5 A
Temperature range	Operation –20 °C up to +70 °C
Humidity	max. 90 %, not condensing

Interfaces

TST CTRL			
OPEN/CLOSE/STOP	Delay	|	max. 50 ms
FDI (3 x DI)			
Output voltage	Voltage range	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port and overall	|	1 A
Supply			
OSSD output	High level	|	19.2 / 30 VDC
(Test output)	High electricity output	|	100 mA
OSSD input	High level	|	11 / 30 VDC
(Test input)	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	Signal form: frequency, duty cycle	|	DC (please refer debounce filter)
	Delay / debounce filter	|	max. 50 ms
FDO (1 x FDO)			
Output voltage	Voltage range 24 VDC +/- x%	|	19.2 / 24 / 30 VDC
Switching current		|	max. 50 mA
Delay circuit		|	max. 50 ms
DI (6 x DI)			
Output voltage	Power supply via	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port	|	0.125 mA
Supply	Max. overall	|	750 mA
Input	High level	|	11 / 30 VDC
	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	T_HL/LH	|	max. 50 ms
	Debounce filter	|	max. 50 m

Order information

5404.000.00	Extension card for door control unit; communication module for TST FUxF, PROFINET interface, PROFINET switch

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Technical data TST RCCA-C

Dimensions (W x H x D)	84 x 118 x 26.1 mm (with plug-in block terminals)
Protection class	open frame
Supply voltage	19.2 / 24 / 30 VDC (DIN EN 61131-2)
Supply type	SELV
Power consumption	2.4 W ... 240 W
Current consumption	unloaded 85 mA / loaded max. 10.5 A
Temperature range	Operation –20 °C up to +70 °C
Humidity	max. 90 %, not condensing

Interfaces

TST CTRL			
OPEN/CLOSE/STOP	Delay	|	max. 50 ms
FDI (3 x DI)			
Output voltage	Voltage range	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port and overall	|	1 A
Supply			
OSSD output	High level	|	19.2 / 30 VDC
(Test output)	High electricity output	|	100 mA
OSSD input	High level	|	11 / 30 VDC
(Test input)	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	Signal form: frequency, duty cycle	|	DC (please refer debounce filter)
	Delay / debounce filter	|	max. 50 ms
FDO (1 x FDO)			
Output voltage	Voltage range 24 VDC +/- x%	|	19.2 / 24 / 30 VDC
Switching current		|	max. 50 mA
Delay circuit		|	max. 50 ms
DI (6 x DI)			
Output voltage	Power supply via	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port	|	0.125 mA
Supply	Max. overall	|	750 mA
Input	High level	|	11 / 30 VDC
	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	T_HL/LH	|	max. 50 ms
	Debounce filter	|	max. 50 m
IOL (4 x IOL)			
Output voltage	Voltage range 24 VDC ± x %	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port and overal	|	0,5 A / 2 A
Supply			
DO	High level	|	19.2 / 24 / 30 VDC
	High electricity output	|	0,5 A / 0,35 A
	T_HL/LH	|	Max. 50 ms
DI	High level	|	13 ... 24 VDC
	High current consumption	|	5 / 5.8 / 6.6 mA
	Low level	|	0 ... 11.5 VDC
	T_HL/LH	|	Max. 50 ms

Order information

5405.000.00	Extension card for door control unit; communication module for TST FUxF, PROFINET interface, PROFINET switch IO-Link

FEIG ELECTRONIC GmbH
D-35781 Weilburg, E-Mail: info@feig.de, www.feig.de

Technical data TST RCCA-D

Dimensions (W x H x D)	84 x 118 x 26.1 mm (with plug-in block terminals)
Protection class	open frame
Supply voltage	19.2 / 24 / 30 VDC (DIN EN 61131-2)
Supply type	SELV
Power consumption	2.4 W ... 240 W
Current consumption	unloaded 85 mA / loaded max. 10.5 A
Temperature range	Operation –20 °C up to +70 °C
Humidity	max. 90 %, not condensing

Interfaces

TST CTRL			
OPEN/CLOSE/STOP	Delay	|	max. 50 ms
FDI (6 x DI)			
Output voltage	Voltage range	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port and overall	|	1 A
Supply			
OSSD output	High level	|	19.2 / 30 VDC
(Test output)	High electricity output	|	100 mA
OSSD input	High level	|	11 / 30 VDC
(Test input)	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	Signal form: frequency, duty cycle	|	DC (please refer debounce filter)
	Delay / debounce filter	|	max. 50 ms
FDO (1 x FDO)			
Output voltage	Voltage range 24 VDC +/- x%	|	19.2 / 24 / 30 VDC
Switching current		|	max. 50 mA
Delay circuit		|	max. 50 ms
DI (6 x DI)			
Output voltage	Power supply via	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port	|	0.125 mA
Supply	Max. overall	|	750 mA
Input	High level	|	11 / 30 VDC
	High current consumption	|	2 / 15 mA
	Low level	|	0 / 5 VDC
	T_HL/LH	|	max. 50 ms
	Debounce filter	|	max. 50 m
IOL (4 x IOL)			
Output voltage	Voltage range 24 VDC ± x %	|	19.2 / 24 / 30 VDC
Electricity output sensor	Max. per port and overal	|	0,5 A / 2 A
Supply			
DO	High level	|	19.2 / 24 / 30 VDC
	High electricity output	|	0,5 A / 0,35 A
	T_HL/LH	|	Max. 50 ms
DI	High level	|	13 ... 24 VDC
	High current consumption	|	5 / 5.8 / 6.6 mA
	Low level	|	0 ... 11.5 VDC
	T_HL/LH	|	Max. 50 ms

Order information

5406.000.00	Extension card for door control unit; communication module for TST FUxF, PROFINET interface, PROFINET switch IO-Link

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