## Profibus DP module for EA25 - 250



## **General**

Profibus is realized via an accessory board and M12 plug adapter. The actuator in a Profibus network can be looped through or used as an end position via a termination resistor.

- Profibus DP V0
- Baud rate 9'600 1.5M
- Connector: M12 (male & female for daisy chain)
- Power supply via standard device plug

## **Profibus commands**

Digital input Actuator moving (feedback) Position OPEN Position CLOSED Position MIDDLE	Signal type	Description	Parameter
CLOSED  MIDDLE  Positioner  Desired actuator position 0 – 100 % of the end position operation op	Digital output	Stop	
MIDDLE Positioner Desired actuator position 0 – 100 % of the end position  Digital input Actuator moving  (feedback) Position OPEN Position CLOSED Position MIDDLE Measured actuator position 0 – 100 % of the end position Remote control selected Monitoring relay Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board Overtemperature active Cycle time expired Motor protection active Thermostat triggered	(command)	OPEN	
Positioner Desired actuator position 0 – 100 % of the end position  (feedback)  Position OPEN Position CLOSED Position MIDDLE Measured actuator position 0 – 100 % of the end position Remote control selected Monitoring relay Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board  Overtemperature active Cycle time expired Motor protection active Thermostat triggered		CLOSED	
Desired actuator position 0 – 100 % of the end position  Digital input Actuator moving  (feedback) Position OPEN Position CLOSED Position MIDDLE Measured actuator position 0 – 100 % of the end position Remote control selected Monitoring relay Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board Low power voltage Overtemperature active Cycle time expired Motor protection active Thermostat triggered		MIDDLE	
Digital input		Positioner	
(feedback)  Position OPEN  Position CLOSED  Position MIDDLE  Measured actuator position 0 – 100 % of the end position Remote control selected  Monitoring relay  Motor current 0-2'000 mA  Internal temperature 0-100° C  Feedback from basic board  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Desired actuator position	0 – 100 % of the end position
Position CLOSED Position MIDDLE Measured actuator position 0 – 100 % of the end position Remote control selected Monitoring relay Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board Low power voltage Overtemperature active Cycle time expired Motor protection active Thermostat triggered	Digital input	Actuator moving	
Position MIDDLE  Measured actuator position 0 – 100 % of the end position Remote control selected  Monitoring relay  Motor current 0-2'000 mA  Internal temperature 0-100° C  Feedback from basic board  Low power voltage  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Position OPEN	
Measured actuator position 0 - 100 % of the end position Remote control selected Monitoring relay Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board Low power voltage Overtemperature active Cycle time expired Motor protection active Thermostat triggered		Position CLOSED	
Remote control selected  Monitoring relay  Motor current 0-2'000 mA  Internal temperature 0-100° C  Feedback from basic board  Low power voltage  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Position MIDDLE	
Monitoring relay  Motor current 0-2'000 mA  Internal temperature 0-100° C  Feedback from basic board Low power voltage  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Measured actuator position	0-100~% of the end position
Motor current 0-2'000 mA Internal temperature 0-100° C  Feedback from basic board Low power voltage Overtemperature active Cycle time expired Motor protection active Thermostat triggered		Remote control selected	
Internal temperature 0-100° C  Feedback from basic board Low power voltage  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Monitoring relay	
Feedback from basic board  Low power voltage  Overtemperature active  Cycle time expired  Motor protection active  Thermostat triggered		Motor current	0-2'000 mA
Overtemperature active Cycle time expired Motor protection active Thermostat triggered		Internal temperature	0-100° C
Cycle time expired  Motor protection active  Thermostat triggered	Feedback from basic board	Low power voltage	
Motor protection active Thermostat triggered		Overtemperature active	
Thermostat triggered		Cycle time expired	
		Motor protection active	
Heater failed		Thermostat triggered	
		Heater failed	
Position detection failed		Position detection failed	
Actuator position invalid		Actuator position invalid	
Teaching mode active		Teaching mode active	
Emergency manual active		Emergency manual active	
Accessory failure		Accessory failure	

## Datasheet

Signal type	Description	Parameter
Accessories		
Fail-safe return	Fail-safe active	
(Failsafe return unit)	Battery active	
	Fail-safe time exceeded	
	Battery weak	
	Battery failure	
Monitoring (monitoring card)		
Digital output	Activation of cycle time	
	extension	
(command)	Cycle time extension	0 9
	Activation of cycle time	
	monitoring	
	Limit cycle time monitoring	0 9
	Activation cycle counter	
	Limit cycle counter	0 9
	Activation of motor current	
	monitoring	
	Motor current limit	0 9
Digital input		
(feedback)	Cycle time extension active	
	Cycle time monitoring active	
	Cycle time monitoring	
	exceeded	
	Cycle counter active	
	Cycle counter exceeded	
	Motor current monitoring	
	active	
	Motor current exceeded	
Profibus		
Digital input	Watchdog recovery	
(feedback)	•	

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