

SIMATIC S7-400, FM 452 ELECTRONIC CAM CONTROLLER INCL. CONFIG. PACKAGE ON CD



Supply voltage	
Rated value (DC)	24 V
Input current	
Current consumption, max.	500 mA
Encoder supply	
5 V encoder supply	
• 5 V	Yes
• Output current, max.	300 mA
• Cable length, max.	32 m
24 V encoder supply	
• 24 V	Yes
• Output current, max.	300 mA
• Cable length, max.	100 m
Power loss	
Power loss, typ.	8.1 W
Digital inputs	
Number of digital inputs	11

Functions	Reference point switch, flying actual value setting/length measurement, brake release, enable track output no. 3 to 10
Input voltage	
<ul style="list-style-type: none"> Rated value (DC) for signal "0" for signal "1" 	24 V -28.8 ... +5V +11 to +28.8V
Input current	
<ul style="list-style-type: none"> for signal "0", max. (permissible quiescent current) for signal "1", typ. 	2 mA 9 mA
Digital outputs	
Number of digital outputs	16
Functions	Cam track
Short-circuit protection	Yes
Output voltage	
<ul style="list-style-type: none"> Rated value (DC) for signal "1", min. 	24 V UP - 0.8 V
Output current	
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 55 °C, max. for signal "0" residual current, max. 	600 mA; with UPmax 0.5 mA
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> Incremental encoder (symmetrical) Incremental encoder (asymmetrical) Absolute encoder (SSI) 2-wire sensor 	Yes Yes Yes Yes
Encoder signals, incremental encoder (symmetrical)	
<ul style="list-style-type: none"> Trace mark signals Zero mark signal Input signal Input frequency, max. 	A, notA, B, notB N, notN 5 V difference signal (phys. RS 422) 1 MHz
Encoder signals, incremental encoder (asymmetrical)	
<ul style="list-style-type: none"> Trace mark signals Zero mark signal Input voltage Input frequency, max. 	A, B N 24 V 50 kHz; 50 kHz for 25 m cable length; 25 kHz for 100 m cable length
Encoder signals, absolute encoder (SSI)	
<ul style="list-style-type: none"> Input signal Data signal Clock signal 	5 V difference signal (phys. RS 422) DATA, notDATA CL, notCL

- Telegram length, parameterizable 13 or 25 bit serial
- Clock frequency, max. 1 MHz
- Gray code 1
- Cable length, shielded, max. 300 m; at max. 125 kHz

Potential separation

Potential separation digital inputs

- Potential separation digital inputs No

Potential separation digital outputs

- Potential separation digital outputs No

Degree and class of protection

Degree of protection acc. to EN 60529

- IP20 Yes

Ambient conditions

Ambient temperature during operation

- min. 0 °C
- max. 55 °C

Ambient temperature during storage/transportation

- min. -40 °C
- max. 70 °C

Connection method

required front connector 1x 48-pin

Dimensions

Width 25 mm
 Height 290 mm
 Depth 210 mm

Weights

Weight, approx. 650 g

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