

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
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	

• Rated value (DC) • for signal "0" • for signal "1"	24 V -28.8 ... +5V +11 to +28.8V
Input current	
• for signal "0", max. (permissible quiescent current)	2 mA
for 2-wire sensor	
— for signal "1", typ.	9 mA
Digital outputs	
Number of digital outputs	16
Functions	Cam track
Short-circuit protection	Yes
Output voltage	
• Rated value (DC) • for signal "1", min.	24 V UP - 0.8 V
Output current	
• 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	
• Incremental encoder (symmetrical) • Incremental encoder (asymmetrical) • Absolute encoder (SSI) • 2-wire sensor	Yes Yes Yes Yes
Encoder signals, incremental encoder (symmetrical)	
• 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)	
• 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)	
• Input signal • Data signal • Clock signal • Telegram length, parameterizable	5 V difference signal (phys. RS 422) DATA, notDATA CL, notCL 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

Relative humidity

- Humidity class F Yes

Connection method

- required front connector 1x 48-pin

Dimensions

- Width 25 mm
- Height 290 mm
- Depth 210 mm

Weights

- Weight, approx. 650 g

last modified: 10/28/2016