



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

Supply voltage

24 V DC	Yes
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Input current

Current consumption, max.	500 mA
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Encoder supply

5 V encoder supply

5 V	Yes
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Output current, max.	300 mA
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Cable length, max.	32 m
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24 V encoder supply

24 V	Yes
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Output current, max.	300 mA
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Cable length, max.	100 m
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Digital inputs

Number of digital inputs	11
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Functions	Reference point switch, flying actual value setting/length measurement, brake release, enable track output no. 3 to 10
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Input voltage

Rated value (DC)	24 V
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for signal "0"	-28,8 ... +5 V
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)	24 V
for signal "1", min.	UP - 0.8 V
Output current	
for signal "1" permissible range for 0 to 55 °C, max.	600 mA ; with UPmax
for signal "0" residual current, max.	0.5 mA
Encoder	
Connectable encoders	
Incremental encoder (symmetrical)	Yes
Incremental encoder (asymmetrical)	Yes
Absolute encoder (SSI)	Yes
2-wire sensor	Yes
Encoder signals, incremental encoder (symmetrical)	
Trace mark signals	A, notA, B, notB
Zero mark signal	N, notN
Input signal	5 V difference signal (phys. RS 422)
Input frequency, max.	1 MHz
Encoder signals, incremental encoder (asymmetrical)	
Trace mark signals	A, B
Zero mark signal	N
Input voltage	24 V
Input frequency, max.	50 kHz ; 50 kHz for 25 m cable length; 25 kHz for 100 m cable length
Encoder signals, absolute encoder (SSI)	
Input signal	5 V difference signal (phys. RS 422)
Data signal	DATA, notDATA
Clock signal	CL, notCL
Message frame 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
Galvanic isolation	
Galvanic isolation digital inputs	
Galvanic isolation digital inputs	No
Galvanic isolation digital outputs	
Galvanic isolation digital outputs	No
Degree and class of protection	
IP20	Yes
Ambient conditions	
Ambient temperature in operation	
max.	55 °C
Storage/transport temperature	
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
Status	Dec 4, 2014