



SIMATIC DP,  
ELECTRONIC MODULE F. ET 200S,  
1 SSI 25BIT/1MHZ 15MM WIDE MODULE FOR CONN. OF  
ABSOLUTE ENCODERS WITH SSI INTERFACE  
SYNCHRONOUS SERIAL INTERFACE WITH DI AND  
COMPAR. VALUE WITH CLOCK CYCLIC SYNCHRON.  
APP

<b>Supply voltage</b>	
<b>Load voltage L+</b>	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
<b>Input current</b>	
from load voltage L+ (without load), max.	40 mA
<b>Encoder supply</b>	
<b>24 V encoder supply</b>	
24 V	Yes
Short-circuit protection	Yes
Output current, max.	500 mA
<b>Absolute encoder (SSI) encoder supply</b>	
Absolute encoder (SSI)	Yes
Output voltage	L+ (-0.8 V)
Output current, max.	500 mA
Short-circuit protection	Yes

<b>Power losses</b>	
<b>Power loss, typ.</b>	1 W
<b>Hardware configuration</b>	
<b>Module exchange</b>	
<b>Hot swapping the IM-DP</b>	Yes
<b>Module exchange under process voltage</b>	Yes
<b>Digital inputs</b>	
<b>Number of digital inputs</b>	1
<b>Input voltage</b>	
<b>for signal "0"</b>	-30 to +5 V
<b>for signal "1"</b>	11 to 30 V
<b>Input current</b>	
<b>for signal "0", max. (permissible quiescent current)</b>	2 mA
<b>for signal "1", typ.</b>	9 mA
<b>Cable length</b>	
<b>Cable length, shielded, max.</b>	50 m
<b>Encoder</b>	
<b>Number of connectable encoders, max.</b>	1
<b>Connectable encoders</b>	
<b>Absolute encoder (SSI)</b>	Yes
<b>Encoder signals, absolute encoder (SSI)</b>	
<b>Message frame length, parameterizable</b>	13, 14, 16, 21, 24 & 25 bit
<b>Binary code</b>	Yes
<b>Gray code</b>	Yes
<b>Cable length, shielded, max.</b>	320 m ; At 125 kHz
<b>Monoflop time</b>	16/32/48/64 µs
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
<b>Group error SF (red)</b>	Yes
<b>Status indicator digital input (green)</b>	Yes
<b>Status indicator backward counting (green)</b>	Yes
<b>Status indicator forward counting (green)</b>	Yes
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital inputs</b>	
<b>Galvanic isolation digital inputs</b>	No ; same potential with L+ and SSI
<b>Galvanic isolation counter</b>	
<b>between the channels and the backplane bus</b>	Yes
<b>between the channels and the load voltage L+</b>	No

**Dimensions**

<b>Width</b>	15 mm
<b>Height</b>	81 mm
<b>Depth</b>	52 mm

**Weights**

<b>Weight, approx.</b>	40 g
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Status Jan 23, 2014