

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

Supply voltage

Load voltage L+

- | | |
|---------------------------------------|--------|
| • 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 |

Input current

- | | |
|---|-------|
| from load voltage L+ (without load), max. | 34 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |

Encoder supply

Absolute encoder (SSI) encoder supply

- | | |
|--------------------------|-------------|
| • Absolute encoder (SSI) | Yes |
| • Type of output voltage | L+ (-0.8 V) |

Power loss

- | | |
|------------------|-------|
| Power loss, typ. | 0.8 W |
|------------------|-------|

Digital inputs

- | | |
|--------------------------|---|
| Number of digital inputs | 1 |
|--------------------------|---|

Input voltage

- | | |
|------------------|-------------|
| • for signal "0" | -30 to +5V |
| • for signal "1" | +11 to +30V |

Input current

- | | |
|--|------|
| • for signal "0", max. (permissible quiescent current) | 2 mA |
| • for signal "1", typ. | 9 mA |

Input delay (for rated value of input voltage)

for standard inputs

- | | |
|-----------------------|--------|
| — at "0" to "1", max. | 300 µs |
| — at "1" to "0", max. | 300 µs |

Encoder

- | | |
|--------------------------------------|---|
| Number of connectable encoders, max. | 1 |
|--------------------------------------|---|

Connectable encoders

• Absolute encoder (SSI)	Yes
• 2-wire sensor	Yes; Type 2
Encoder signals, absolute encoder (SSI)	
• Cable length, shielded, max.	320 m at 125 kHz, 160 m at 250 kHz, 60 m at 500 kHz, 20 m at 1 MHz, 8 m at 2 MHz, twisted in pairs and shielded
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator backward counting (green)	Yes
• Status indicator forward counting (green)	Yes
Potential separation	
Potential separation counter	
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
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