



SIMATIC DP, electronic modules for ET 200pro EM 2 SSI position detection for 2 SSI absolute encoders incl. bus module, connection module CM SSI 6ES7194-4CC00-0AA0 to be ordered separately

General information	
Product function	
<ul style="list-style-type: none"> • Isochronous mode 	No
Engineering with	
<ul style="list-style-type: none"> • STEP 7 TIA Portal configurable/integrated from version • PROFINET from GSD version/GSD revision 	STEP 7 V18.0.1.4 or higher GSDML V2.35
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from supply voltage 1L+, max.	30 mA; without output current for the 24 V Encoder supply
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	2
24 V encoder supply	
<ul style="list-style-type: none"> • 24 V • Short-circuit protection • Output current, max. 	Yes; L+ (-0.8 V) Yes; electronic/thermal 150 mA; Per channel
Power loss	
Power loss, typ.	0.65 W
Address area	
Address space per module	
<ul style="list-style-type: none"> • Address space per module, max. • Inputs • Outputs 	8 byte 8 byte 0 byte
Digital inputs	
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	30 m
Encoder	
Encoder signals, absolute encoder (SSI)	
<ul style="list-style-type: none"> • Input signal • Telegram length, parameterizable • Clock frequency, max. • Binary code • Gray code • Cable length, shielded, max. • Parity bit, parameterizable • Monoflop time • Multiturn 	to RS-422 10 ... 40 bit 2 MHz; 125 kHz, 250 kHz, 500 kHz, 1 MHz, 1.5 MHz or 2 MHz Yes Yes 30 m; Up to 500 kHz Yes 16, 32, 48, 64 μs & automatic Yes

• Singleturn	Yes
Interface types	
• RS 422	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
• Diagnostic alarm	Yes
Diagnoses	
• Diagnostic information readable	Yes
• Wire-break	Yes
• Short-circuit	Yes; Encoder supply to M, channel by channel
• Telegram error at SSI encoder	Yes
Diagnostics indication LED	
• ERROR LED	Yes
• Channel status display	Yes
• for channel diagnostics	Yes
Integrated Functions	
Fast mode	Yes
Position detection	
• Absolute acquisition	Yes
Potential separation	
Potential separation channels	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No
Isolation	
Isolation tested with	707 V DC (type test)
Connection method	
Design of electrical connection	M12, 8-pin
Dimensions	
Width	45 mm
Height	130 mm
Depth	35 mm
Weights	
Weight, approx.	150 g
Classifications	

	Version	Classification
eClass	14	27-24-26-05
eClass	12	27-24-26-05
eClass	9.1	27-24-26-05
eClass	9	27-24-26-05
eClass	8	27-24-26-05
eClass	7.1	27-24-26-05
eClass	6	27-24-26-05
ETIM	10	EC001601
ETIM	9	EC001601
ETIM	8	EC001601
ETIM	7	EC001601

Approvals / Certificates	
General Product Approval	

[Manufacturer Declaration](#)



[KC](#)

[Miscellaneous](#)

[China RoHS](#)

General Product Approval EMV Maritime application



[KC](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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