



Figure similar

*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 1 count 24 V/100 kHz 15 mm installation width, operating modes: Count, Measure, (cycle duration measurement, high-resolution) with clock synchronization

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.	42 mA
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
24 V encoder supply	
• 24 V	Yes; L+ (-0.8 V)
• Short-circuit protection	Yes
• Output current, max.	500 mA
Power loss	
Power loss, typ.	1 W
Hardware configuration	
Module exchange	
• Module exchange during operation of the IM-DP	Yes
• Module exchange under process voltage	Yes
Digital inputs	
Number of digital inputs	1
Functions	Gate control, synchronization, latch function
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• 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.	2.5 µs; Filter off: 2.5 µs (200 kHz), filter on: 25 µs (20 kHz)
Cable length	
• shielded, max.	100 m; Filter 20 kHz: 100 m, filter 200 kHz: 50 m
Digital outputs	
Number of digital outputs	1

Short-circuit protection	Yes
• Response threshold, typ.	2.6 A to 4 A
Limitation of inductive shutdown voltage to	L+ (-50 to -60 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
Output voltage	
• Rated value (DC)	24 V
• for signal "0", max.	3 V
• for signal "1", min.	L+ (-1 V)
Output current	
• for signal "1" permissible range for 0 to 40 °C, min.	5 mA
• for signal "1" permissible range for 0 to 40 °C, max.	2 000 mA
• for signal "1" permissible range for 0 to 60 °C, min.	5 mA
• for signal "1" permissible range for 0 to 60 °C, max.	500 mA; 1 000 mA at 50 °C
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 µs
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Number of connectable encoders, max.	1
Connectable encoders	
• Incremental encoder (asymmetrical)	Yes
• 24 V initiator	Yes
• 2-wire sensor	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator digital output (green)	Yes
• Status indicator forward counting (green)	Yes
• Status indicator backward counting (green)	Yes
Integrated Functions	
Measuring functions	
Measuring range	
— Frequency measurement, min.	0.1 Hz
— Frequency measurement, max.	100 kHz
— Cycle duration measurement, min.	10 µs
— Cycle duration measurement, max.	120 s
— Speed measurement, min.	1 1/min
— Speed measurement, max.	25 000 1/min
Counter	
Number of counter inputs	1; 32 bit
Counter input 24 V	
• Minimum pulse width	2.5 µs; Filter off: 2.5 µs (200 kHz), filter on: 25 µs (20 kHz)
Parameter	
Remark	16 byte
Potential separation	
Potential separation digital inputs	
• Potential separation digital inputs	No; only opposite shielding
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
-----------------	------

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
IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval

EMV



[Manufacturer Declaration](#)

[China RoHS](#)



For use in hazardous locations



[FM](#)



For use in hazardous locations

Maritime application

[Miscellaneous](#)

[CCC-Ex](#)



Maritime application

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [PLC Controllers](#) category:

Click to view products by [Siemens](#) manufacturer:

Other Similar products are found below :

[SL-TBP4-PN](#) [FP0-CCLS](#) [FP2-Y32T](#) [SL-TB4-PN](#) [CP1H-Y20DT-D](#) [EASY-E4-AC-12RCX1P](#) [EASY-E4-AC-16RE1P](#) [EASY-E4-AC-8RE1P](#)
[EASY-E4-DC-12TC1P](#) [EASY-E4-DC-16TE1P](#) [EASY-E4-DC-4PE1P](#) [EASY-E4-DC-6AE1P](#) [EASY-E4-DC-8TE1P](#) [EASY-E4-UC-12RCX1P](#)
[EASY-E4-UC-16RE1P](#) [EASY-E4-UC-8RE1P](#) [EASY-BOX-E4-AC1](#) [6GK1901-1BB30-0AA0](#) [6ES7521-1BL10-0AA0](#) [6ES7226-6RA32-0XB0](#)
[6ES7590-1AE80-0AA0](#) [TM200C32R](#) [6ES7954-8LF04-0AA0](#) [6ES7590-1AC40-0AA0](#) [XW2K40GO32C](#) [56501](#) [6AG40210AA200AA6](#)
[56527](#) [57105](#) [56521](#) [6ES75152FM020AB0](#) [6ES75262BF000AB0](#) [6AG40210AA200AA1](#) [6ES72141AF500XB0](#) [6ES72141AH500XB0](#)
[6AG12211BH322XB0](#) [6ES71314BF000AA0](#) [6ES71314BD010AA0](#) [6ES71513BA230AB0](#) [6AG11316BF007CA0](#) [6AG12315PD324XB0](#)
[6ES71384FA050AB0](#) [6ES72121HG500XB0](#) [6ES72141HH500XB0](#) [6ES73231BH010AA0](#) [6ES75111AL030AB0](#) [6ES75111FL030AB0](#)
[6ES75121DK010AB0](#) [6ES75121SM030AB0](#) [6ES75131AM030AB0](#)