



Figure similar

Spare part SIMATIC S7-200, Digital input EM 221, only for S7-22X CPU, 16 DI, 24 V DC, sinking-sourcing

Input current	
from backplane bus 5 V DC, max.	70 mA
Power loss	
Power loss, typ.	3 W
Digital inputs	
Number of digital inputs	16
Source/sink input	Yes
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> Type of input voltage Rated value (DC) for signal "0" for signal "1" 	DC 24 V 0 to 5 V +15 to +30 V
Input current	
<ul style="list-style-type: none"> for signal "1", typ. 	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	4.5 ms
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	500 m 300 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	Yes 1 mA
Potential separation	
Potential separation digital inputs	
<ul style="list-style-type: none"> Potential separation digital inputs between the channels, in groups of 	Yes; Optocoupler 4
Isolation	
Isolation tested with	500V AC for 1 minute
connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	160 g

Classifications

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	For use in hazardous locations	Maritime application
--------------------------	--------------------------------	----------------------

[Manufacturer Declaration](#)



EG-Konf.

[Miscellaneous](#)



ATEX

[EM](#)



Maritime application



DNV



GL



LRS



RMRS

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

last modified:

8/22/2024