



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 | Marine / Shipping |
|--------------------------|--------------------------------|-------------------|
|--------------------------|--------------------------------|-------------------|

[Manufacturer Declaration](#)



[EM](#)



Marine / Shipping



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

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