



Figure similar

SIMATIC S7-1200, Digital output SB 1222, 4 DQ, 5V DC 200kHz

| General information                       |                                                           |
|-------------------------------------------|-----------------------------------------------------------|
| Product type designation                  | SB 1222, DQ 4x5 V DC 200 kHz                              |
| Input current                             |                                                           |
| from backplane bus 5 V DC, typ.           | 35 mA                                                     |
| Power loss                                |                                                           |
| Power loss, typ.                          | 0.5 W                                                     |
| Digital outputs                           |                                                           |
| Number of digital outputs                 | 4; MOSFET, solid-state (current-sinking/current-sourcing) |
| • in groups of                            | 4                                                         |
| Short-circuit protection                  | No                                                        |
| Switching capacity of the outputs         |                                                           |
| • with resistive load, max.               | 0.1 A                                                     |
| Load resistance range                     |                                                           |
| • upper limit                             | 7 Ω                                                       |
| Output voltage                            |                                                           |
| • Rated value (DC)                        | 5 V                                                       |
| • for signal "0", max.                    | 0.2 V                                                     |
| • for signal "1", min.                    | L+ minus 0.7 V DC                                         |
| • for signal "1", max.                    | 6 V                                                       |
| Output current                            |                                                           |
| • for signal "1" rated value              | 0.1 A                                                     |
| • for signal "1" permissible range, max.  | 0.1 A                                                     |
| Cable length                              |                                                           |
| • shielded, max.                          | 50 m                                                      |
| Interrupts/diagnostics/status information |                                                           |
| Diagnostics indication LED                |                                                           |
| • for status of the outputs               | Yes                                                       |
| Standards, approvals, certificates        |                                                           |
| CE mark                                   | Yes                                                       |
| CSA approval                              | Yes                                                       |
| UL approval                               | Yes                                                       |
| cULus                                     | Yes                                                       |
| FM approval                               | Yes                                                       |
| RCM (formerly C-TICK)                     | Yes                                                       |
| KC approval                               | Yes                                                       |
| Marine approval                           | Yes                                                       |
| Ambient conditions                        |                                                           |
| Free fall                                 |                                                           |
| • Fall height, max.                       | 0.3 m; five times, in product package                     |

|                                                                                                 |                                                                                              |                                                                                             |                                                                                              |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Ambient temperature during operation                                                            |                                                                                              |                                                                                             |                                                                                              |
| • min.                                                                                          | -20 °C                                                                                       |                                                                                             |                                                                                              |
| • max.                                                                                          | 60 °C                                                                                        |                                                                                             |                                                                                              |
| • horizontal installation, min.                                                                 | -20 °C                                                                                       |                                                                                             |                                                                                              |
| • horizontal installation, max.                                                                 | 60 °C                                                                                        |                                                                                             |                                                                                              |
| • vertical installation, min.                                                                   | -20 °C                                                                                       |                                                                                             |                                                                                              |
| • vertical installation, max.                                                                   | 50 °C                                                                                        |                                                                                             |                                                                                              |
| Ambient temperature during storage/transportation                                               |                                                                                              |                                                                                             |                                                                                              |
| • min.                                                                                          | -40 °C                                                                                       |                                                                                             |                                                                                              |
| • max.                                                                                          | 70 °C                                                                                        |                                                                                             |                                                                                              |
| Air pressure acc. to IEC 60068-2-13                                                             |                                                                                              |                                                                                             |                                                                                              |
| • Storage/transport, min.                                                                       | 660 hPa                                                                                      |                                                                                             |                                                                                              |
| • Storage/transport, max.                                                                       | 1 080 hPa                                                                                    |                                                                                             |                                                                                              |
| Relative humidity                                                                               |                                                                                              |                                                                                             |                                                                                              |
| • Operation at 25 °C without condensation, max.                                                 | 95 %                                                                                         |                                                                                             |                                                                                              |
| Mechanics/material                                                                              |                                                                                              |                                                                                             |                                                                                              |
| Enclosure material (front)                                                                      |                                                                                              |                                                                                             |                                                                                              |
| • Plastic                                                                                       | Yes                                                                                          |                                                                                             |                                                                                              |
| Dimensions                                                                                      |                                                                                              |                                                                                             |                                                                                              |
| Width                                                                                           | 38 mm                                                                                        |                                                                                             |                                                                                              |
| Height                                                                                          | 62 mm                                                                                        |                                                                                             |                                                                                              |
| Depth                                                                                           | 21 mm                                                                                        |                                                                                             |                                                                                              |
| Weights                                                                                         |                                                                                              |                                                                                             |                                                                                              |
| Weight, approx.                                                                                 | 35 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                                                                        |                                                                                              |                                                                                             | EMV                                                                                          |
| <a href="#">Manufacturer Declaration</a>                                                        |                                                                                              |                                                                                             |                                                                                              |
| <br>EG-Konf. |           | <br>UL   | <br>RCM |
| <br>RCM    |                                                                                              |                                                                                             |                                                                                              |
| For use in hazardous locations                                                                  |                                                                                              |                                                                                             |                                                                                              |
| <br>ATEX     | <br>IECEX | <a href="#">FM</a>                                                                          | <br>UL    |
|                                                                                                 |                                                                                              | <br>UL | <a href="#">CCC-Ex</a>                                                                       |
| Marine / Shipping                                                                               |                                                                                              |                                                                                             |                                                                                              |



[NK / Nippon Kaiji Kyokai](#)



## Marine / Shipping

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



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