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## Data sheet 6ES7972-0AB01-0XA0




SIMATIC S7, Diagnostic repeaters for PROFIBUS DP, for online diagnostics of the PROFIBUS cable, DP standard slave up to 12 Mbit/s, Degree of protection IP20, FastConnect connection method

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| **Power loss** | |
| Power loss, typ. | 4 W |
| **Interfaces** | |
| PROFIBUS DP | |
| ● Transmission rate, max. | 12 Mbit/s; 9.6 kbit/s to 12 Mbit/s |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 60 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| ● max. | 70 °C |
| Relative humidity | |
| ● Operation, max. | 95 %; at 25 °C |
| **Connection method** | |
| Design of electrical connection for supply voltage | Terminal module |
| Design of electrical connection for PROFIBUS cables | FastConnect insulation displacement, 10 clamping cycles possible |
| **Dimensions** | |
| Width | 80 mm |
| Height | 125 mm |
| Depth | 67.5 mm |
| **Weights** | |
| Weight, approx. | 300 g |
| **Classifications** | |

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-08 |
| eClass | 14 | 27-24-26-08 |
| eClass | 12 | 27-24-26-08 |
| eClass | 9.1 | 27-24-26-08 |
| eClass | 9 | 27-24-26-08 |
| eClass | 8 | 27-24-26-08 |


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| | | |
|---|---|---|
| eClass | 7.1 | 27-24-26-08 |
| eClass | 6 | 27-24-26-08 |
| ETIM | 10 | EC001604 |
| ETIM | 9 | EC001604 |
| ETIM | 8 | EC001604 |
| ETIM | 7 | EC001604 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

### General Product Approval

Miscellaneous










Manufacturer Declaration




### General Product Approval







China RoHS







Manufacturer Declaration

### EMV




### For use in hazardous locations




FM







Miscellaneous

### For use in hazardous locations




CCC-Ex

### Maritime application







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