



Figure similar

SIPLUS DP RS-485 repeater based on 6ES7972-0AA02-0XA0 with conformal coating, -25...+70 °C, for connection of PROFIBUS/MPI bus systems with max. 31 nodes max. baud rate 12 Mbps, degree of protection IP20

| Supply voltage  |   |
|---|---|
| Rated value (DC)  | 24 V  |
| permissible range, lower limit (DC)                                 | 20.4 V  |
| permissible range, upper limit (DC)                                 | 28.8 V  |
| Input current   |   |
| Current consumption, max.   | 100 mA; 100 mA without loads at PG/OP socket; 130 mA load at PG/OP socket (5 V/90 mA); 200 mA load at PG/OP socket (24 V/100 mA)  |
| 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.  | -25 °C; = Tmin (incl. condensation/frost)   |
| • max.  | 70 °C; = Tmax   |
| Ambient temperature during storage/transportation                   |   |
| • min.  | -40 °C  |
| • max.  | 70 °C   |
| Altitude during operation relating to sea level                     |   |
| • Installation altitude above sea level, max.                       | 5 000 m   |
| • Ambient air temperature-barometric pressure-altitude              | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity   |   |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)   |
| Resistance  |   |
| Use in stationary industrial systems                                |   |
| — to biologically active substances according to EN 60721-3-3       | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  |
| — to chemically active substances according to EN 60721-3-3         | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  |
| — to mechanically active substances according to EN 60721-3-3       | Yes; Class 3S4 incl. sand, dust, *  |
| Use on ships/at sea   |   |
| — to biologically active substances according to EN 60721-3-6       | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request   |
| — to chemically active substances according to EN 60721-3-6         | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  |
| — to mechanically active substances according to EN 60721-3-6       | Yes; Class 6S3 incl. sand, dust; *  |

|   |   |
|---|---|
| <b>Usage in industrial process technology</b>   |   |
| — Against chemically active substances acc. to EN 60654-4   | Yes; Class 3 (excluding trichlorethylene)   |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04                            | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| <b>Remark</b>   |   |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04             | * The supplied plug covers must remain in place over the unused interfaces during operation!  |
| <b>Conformal coating</b>  |   |
| • Coatings for printed circuit board assemblies acc. to EN 61086  | Yes; Class 2 for high reliability   |
| • Protection against fouling acc. to EN 60664-3   | Yes; Type 1 protection  |
| • Military testing according to MIL-I-46058C, Amendment 7   | Yes; Discoloration of coating possible during service life  |
| • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A   |
| <b>connection method / header</b>   |   |
| Design of electrical connection for supply voltage  | Terminal module   |
| Design of electrical connection for PROFIBUS cables   | 2 terminal blocks   |
| <b>Dimensions</b>   |   |
| Width   | 45 mm   |
| Height  | 128 mm  |
| Depth   | 67 mm   |
| <b>Weights</b>  |   |
| Weight, approx.   | 350 g   |

**last modified:** 12/18/2020 