

Active field distributor AFDiSD FISCO field barrier for PROFIBUS PA for Foundation Fieldbus H1 Extended fieldbus diagnostics for PROFIBUS PA 6 short circuit-proof and intrinsically safe spur lines with bounce protection logic Integrated field bus repeater Automatic bus termination for line and ring topology for extended temperature range Degree of protection IP66 Extended fieldbus diagnostics



| General information | |
|--|---|
| Product function | |
| • Repeater function | Yes |
| Supply voltage | |
| Design of the power supply | via fieldbus |
| permissible range, lower limit (DC) | 16 V |
| permissible range, upper limit (DC) | 32 V |
| Reverse polarity protection | Yes; only in conjunction with FDC 157 |
| Overtoltage protection | Yes; only in conjunction with FDC 157 |
| Input current | |
| Current consumption, max. | 400 mA; at 20 V input voltage |
| Current consumption in the case of short-circuit at all spur lines | 100 mA; at 24 V input voltage |
| Power loss | |
| Power loss, typ. | 1.4 W; minimum - typ. specification not possible because load-dependent |
| Power loss, max. | 5.9 W |
| Interfaces | |
| PROFIBUS PA | |
| • Transmission rate, max. | 31.25 kbit/s |
| • Number of connectable PA field devices | 6 |
| • Current output to PA field devices, max. | 260 mA; max. 180 mA total current of all field devices for operation in the permissible operating voltage range from 16 V to 32 V |
| • permissible current per spur line | 40 mA; first spur line 60 mA |
| Protocols | |
| PROFIBUS DP | No |
| PROFIBUS PA | Yes |
| AS-Interface | No |
| FOUNDATION Fieldbus H1 | Yes |
| Interrupts/diagnostics/status information | |
| Status indicator | Yes |
| Alarms | No |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| • Main line status | Yes |
| • Main line failure | Yes |
| • Spur line status/fault | Yes |
| • automatic bus termination | Yes |
| Potential separation | |
| between main line and spur lines | Yes |
| Isolation | |

| | |
|--|---|
| Isolation tested with | 2 550 V DC |
| Degree and class of protection | |
| IP degree of protection | IP66 |
| Standards, approvals, certificates | |
| Use in hazardous areas | |
| <ul style="list-style-type: none"> • ATEX Zone 1 • ATEX Zone 21 • ATEX Zone 2 • ATEX Zone 22 • ATEX certificate • FM Class I Zone 1 • FM Class I Zone 2, Division 2 | <ul style="list-style-type: none"> Yes Yes Yes Yes 14 ATEX 0044 No No |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • min. • max. | <ul style="list-style-type: none"> -40 °C 70 °C |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • min. • max. | <ul style="list-style-type: none"> -40 °C 70 °C |
| Relative humidity | |
| <ul style="list-style-type: none"> • Operation, max. | 95 % |
| Connection method | |
| connection method / main cable / header | |
| <ul style="list-style-type: none"> • number of connections / for PROFIBUS PA main cable • design of the electrical connection / for PROFIBUS PA main cable • design of the thread / of cable screw connection / for PROFIBUS PA main cable • design of the PROFIBUS PA main cable • Cable diameter, min. • Cable diameter, max. • Conductor cross-section, min. • Conductor cross-section, max. • product function / of the PROFIBUS PA main cable / automatic bus termination • permissible main line current | <ul style="list-style-type: none"> 2 Screw terminal block M20 Type A 6 mm 13 mm 0.2 mm² 2.5 mm² Yes 1 A |
| connection method / spur line / header | |
| <ul style="list-style-type: none"> • Number of spur lines • Design of terminals • Type of connection (enclosure cable gland) • Type of cable • Cable diameter, min. • Cable diameter, max. • Conductor cross-section, min. • Conductor cross-section, max. • total current output to field devices, max. • Number of connectable field devices • Current limitation per field device, max. • No-load voltage, max. • short-circuit proof • Short-circuit current (test current); max. • intrinsically safe according to FISCO model • Debounce logic | <ul style="list-style-type: none"> 6 Screw terminal block M16 Type A 4 mm 9 mm 0.2 mm² 2.5 mm² 260 mA; max. 180 mA total current of all field devices for operation in the permissible operating voltage range from 16 V to 32 V 6 40 mA; 60 mA on S1 15.3 V Yes 6 mA Yes Yes |
| Dimensions | |
| Width | 380 mm |
| Height | 85 mm |
| Depth | 170 mm |
| Weights | |
| Weight, approx. | 4 500 g |

Classifications

| | Version | Classification |
|--------|---------|----------------|
| 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 |
| 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](#)



[China RoHS](#)



For use in hazardous locations



Environment



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