

Active field distributor AFD4 for standard mounting rail mounting without enclosure for PROFIBUS PA for foundation Fieldbus H1, 4 short circuit-proof spur lines with bounce protection logic Automatic bus termination for line and ring topology for extended temperature range Degree of protection IP20



General information

Product function

- | | |
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| • Repeater function | No |
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Supply voltage

permissible range, lower limit (DC)	16 V
permissible range, upper limit (DC)	32 V

Input current

Current consumption (in no-load operation), typ.	24 mA; 54 mA at the end of the cable
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Power loss

Power loss, typ.	384 mW
Power loss, max.	3.2 W

Interfaces

PROFIBUS PA

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|--|--------------|
| • Transmission rate, max. | 31.25 kbit/s |
| • Number of connectable PA field devices | 4 |
| • Current output to PA field devices, max. | 240 mA |
| • permissible current per spur line | 60 mA |

Protocols	
PROFIBUS PA	Yes
FOUNDATION Fieldbus H1	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	No
Diagnostics function	Yes
Diagnostics indication LED	
• Main line status	Yes
• Spur line status/fault	Yes
• automatic bus termination	Yes
Potential separation	
between main line and spur lines	No
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Use in hazardous areas	
• ATEX Zone 1	No
• ATEX Zone 21	No
• ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• FM Class I Zone 1	No
• FM Class I Zone 2, Division 2	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C
• max.	70 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Connection method	
Main line	
• Number of main lines	2
• Design of terminals	Screw terminal block
• Type of cable	Type A
• Conductor cross-section, min.	0.2 mm ²
• Conductor cross-section, max.	2.5 mm ²
• automatic bus termination	Yes
• permissible main line current	1 A
Spur line	

• Number of spur lines	4
• Type of cable	Type A
• Conductor cross-section, min.	0.2 mm ²
• Conductor cross-section, max.	2.5 mm ²
• total current output to field devices, max.	240 mA
• Number of connectable field devices	4
• Current limitation per field device, max.	60 mA
• Short-circuit current (test current); max.	6 mA
• intrinsically safe according to FISCO model	No
• Debounce logic	Yes

Dimensions

Width	220 mm
Height	120 mm
Depth	83 mm

Weights

Weight, approx.	1 000 g
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last modified: 11/21/2019