

active field splitter AFS for PROFIBUS PA for foundation Fieldbus H1, for extended temperature range Degree of protection IP66



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
Reverse polarity protection	Yes; only in conjunction with FDC 157
Overvoltage protection	No

Input current

Current consumption (in no-load operation), typ.	24 mA
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Power loss

Power loss, typ.	864 mW
Power loss, max.	2.13 W

Interfaces

PROFIBUS PA

- | | |
|---------------------------|--------------|
| • Transmission rate, max. | 31.25 kbit/s |
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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

<ul style="list-style-type: none"> • Main line status 	Yes
<ul style="list-style-type: none"> • Main line failure 	Yes
<ul style="list-style-type: none"> • Spur line status/fault 	Yes
<ul style="list-style-type: none"> • automatic bus termination 	No

Potential separation

between main line and spur lines	No
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Degree and class of protection

IP degree of protection	IP66
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Standards, approvals, certificates

Use in hazardous areas

<ul style="list-style-type: none"> • ATEX Zone 1 	No
<ul style="list-style-type: none"> • ATEX Zone 21 	No
<ul style="list-style-type: none"> • ATEX Zone 2 	Yes
<ul style="list-style-type: none"> • ATEX Zone 22 	Yes
<ul style="list-style-type: none"> • FM Class I Zone 1 	No
<ul style="list-style-type: none"> • FM Class I Zone 2, Division 2 	Yes

Ambient conditions

Ambient temperature during operation

<ul style="list-style-type: none"> • min. 	-40 °C
<ul style="list-style-type: none"> • max. 	70 °C

Ambient temperature during storage/transportation

<ul style="list-style-type: none"> • min. 	-40 °C
<ul style="list-style-type: none"> • max. 	85 °C

Relative humidity

<ul style="list-style-type: none"> • Operation, max. 	95 %
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Connection method

Main line

<ul style="list-style-type: none"> • Number of main lines 	2
<ul style="list-style-type: none"> • Design of terminals 	Screw terminal block
<ul style="list-style-type: none"> • Type of connection (enclosure cable gland) 	M16
<ul style="list-style-type: none"> • Type of cable 	Type A

- Cable diameter, min. 4 mm
- Cable diameter, max. 9 mm
- Conductor cross-section, min. 0.2 mm²
- Conductor cross-section, max. 2.5 mm²
- permissible main line current 1 A

Spur line

- Number of spur lines 2
- Type of connection (enclosure cable gland) M16
- Type of cable Type A
- Cable diameter, min. 4 mm
- Cable diameter, max. 9 mm
- Conductor cross-section, min. 0.2 mm²
- Conductor cross-section, max. 2.5 mm²
- intrinsically safe according to FISCO model No

Dimensions

Width	220 mm
Height	120 mm; without screw glands
Depth	83 mm

Weights

Weight, approx.	2 000 g
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last modified: 02/07/2020