SIEMENS

Data sheet 6ES7157-0AG82-0XA0

Active field distributor AFD8 for PROFIBUS PA for foundation Fieldbus H1, 8 short circuit-proof spur lines with bounce protection logic Automatic bus termination for line and ring topology for extended temperature range Degree of protection IP66



General information	
Product function	
● Repeater function	No
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.	34 mA; 64 mA at the end of the cable
Current consumption, max.	514 mA
Power loss	
Power loss, typ.	544 mW
Power loss, max.	4.1 W
Interfaces	
PROFIBUS PA	
● Transmission rate, max.	31.25 kbit/s
● Number of connectable PA field devices	8
● Current output to PA field devices, max.	480 mA
● permissible current per 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	No
Degree and class of protection	
IP degree of protection	IP66
Standards, approvals, certificates	
Use in hazardous areas	

Subject to change without notice
© Copyright Siemens

● 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.	85 °C
Relative humidity	
● Operation, max.	95 %
connection method	
connection method / main cable / header	
● number of connections / for PROFIBUS PA main cable	2
● design of the electrical connection / for PROFIBUS PA main cable	Screw terminal block
● design of the thread / of cable screw connection / for PROFIBUS PA main cable	M16
● design of the PROFIBUS PA main cable	Type A
● diameter / of the PROFIBUS PA main cable / connectable / minimum	4 mm
● diameter / of the PROFIBUS PA main cable / connectable / maximum	9 mm
● connectable conductor cross-section / of the PROFIBUS PA main cable / minimum	0.2 mm²
● connectable conductor cross-section / of the PROFIBUS PA main cable / maximum	2.5 mm²
● product function / of the PROFIBUS PA main cable / automatic bus termination	Yes
● output current / for PROFIBUS PA main cable / maximum permissible	1 A
connection method / spur line / header	
● Number of spur lines	8
● Design of terminals	Screw terminal block
● 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
● total current output to field devices, max.	480 mA
● Number of connectable field devices	8
● 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	360 mm
Height	120 mm; without screw glands
Depth	83 mm
Weights	
Weight, approx.	3 000 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

Subject to change without notice
© Copyright Siemens

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

Type Examination Certificate

Environment

last modified: 5/4/2025

Subject to change without notice
© Copyright Siemens