SIEMENS

Data sheet   **6ES7157-0AD82-0XA0**

Figure similar

SIMATIC DP, distributed I/O Field device interface DP/PA coupler Ex version Ex(IA) 110 mA Field coupler between PROFIBUS DP and field bus segments to IEC 61158-2, for example PROFIBUS PA, for extended temperature range Degree of protection IP20

General information	
Product description	FDC157 Ex [ia]
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	400 mA
Power loss	
Power loss, typ.	7 W
Interfaces	
PROFIBUS DP	
● Transmission rate, max.	45.45 kbit/s
● Design of electrical connection	9-pin sub D
PROFIBUS PA	
● Transmission rate, max.	31.25 kbit/s
● Number of connectable PA field devices	31
● Current output to PA field devices, max.	110 mA
Protocols	
PROFIBUS DP	Yes
PROFIBUS PA	Yes
Interrupts/diagnostics/status information	
Status indicator	No
Diagnostics function	Yes
Diagnostics indication LED	
● Bus activity DP (yellow)	Yes
● Bus activity PA (yellow)	Yes
● Monitoring 24 V voltage supply ON (green)	Yes
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
● Uo (no-load voltage), max.	15 V
● Io (short-circuit current), max.	247 mA
● Po (power output), max.	1.95 W
● Um (voltage at non-intrinsically safe connecting terminals), max.	250 V; AC
Potential separation	

between PROFIBUS DP and all other circuit components	Yes
between PROFIBUS PA and all other circuit components	Yes
Isolation	
Isolation tested with	500 V AC
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C
● max.	60 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Relative humidity	
● Operation, max.	95 %
Dimensions	
Width	80 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	550 g

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