



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		
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](#)

General Product Approval

For use in hazardous locations

[Miscellaneous](#)

[Manufacturer Declaration](#)



[FM](#)



Maritime application

Environment



[CCS \(China Classification Society\)](#)



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