



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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Transmission rate, max. 	45.45 kbit/s
<ul style="list-style-type: none"> Design of electrical connection 	9-pin sub D
PROFIBUS PA	
<ul style="list-style-type: none"> Transmission rate, max. 	31.25 kbit/s
<ul style="list-style-type: none"> Number of connectable PA field devices 	31
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Bus activity DP (yellow) 	Yes
<ul style="list-style-type: none"> Bus activity PA (yellow) 	Yes
<ul style="list-style-type: none"> Monitoring 24 V voltage supply ON (green) 	Yes
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
<ul style="list-style-type: none"> U_o (no-load voltage), max. 	15 V
<ul style="list-style-type: none"> I_o (short-circuit current), max. 	247 mA
<ul style="list-style-type: none"> P_o (power output), max. 	1.95 W
<ul style="list-style-type: none"> U_m (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

	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](#)



For use in hazardous locations **Maritime application**



[FM](#)



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

Environment



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