13.5 Technical specifications for DP/PA coupler (6ES7157-0AC82-0XA0)

Dimensions and weight	
Dimension W x H x D (mm)	80 x 125 x 130
Weight	approx. 515 g
Module-specific data	
Transmission speed on PROFIBUS DP	45.45 kbaud
Transmission speed on PROFIBUS PA	31.25 kbaud
Bus protocol	PROFIBUS DP
Voltages, currents, potentials	
Rated supply voltage	24 VDC (20.4 V ... 28.8 V)
• Polarity reversal protection	Yes
Output voltage for PA section:	31 VDC ± 1 V
• Power failure bypass	Min. 5 ms
electrical isolation of the 24 V power supply	
• to PROFIBUS DP	Yes
• to PROFIBUS PA	Yes
Insulation tested with	500 VDC
DP/PA coupler power consumption (24 VDC)	max. 1.8 A
Output current PA section (for dimensioning the PA configuration)	1 A
Power loss of the module	Typically 12 W
Status, interrupts, diagnostics	
Status display	No
Interrupts	None
Diagnostic function	Yes
• PROFIBUS DP bus monitoring	Yellow LED "DP"
• PROFIBUS PA bus monitoring	Yellow LED "PA"
• Monitoring 24 V voltage supply	Green "ON" LED
Data for selecting the PA field devices	
Connection to DP/PA couplers	• max. power consumption of the PA field devices alogether 1 A • Field devices with certification for PROFIBUS PA • Field devices are located **outside** the Ex area • max. 31 PA field devices can be connected