Data sheet

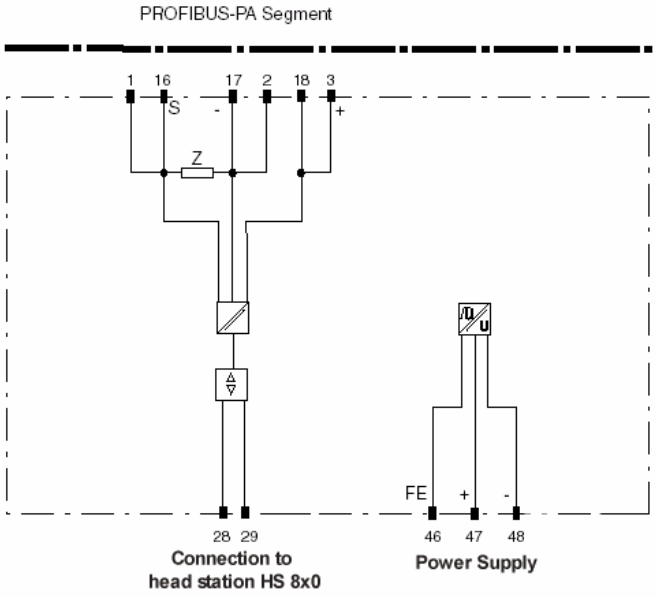
Field^{IT}

PL 810 Power Link Module for LD 800P

Benefits

- Power Link Module for a non-intrisincally safe PROFIBUS PA segement
- PROFIBUS PA output in accordance with EN 50170/2 and IEC 61158-2; 31.25 kbit/s
- Up to 32 PROFIBUS PA devices can be connected to a PA segment
- 24 V DC nominal supply voltage
- No configuration necessary
- Removable terminals
- EMC in accordance with NAMUR NE 21

Power Link Module PL 810 for PROFIBUS DP/PA Linking Device LD 800P



Function

The Power Link Module and the head station HS 8x0 form a Linking Device LD 800P. The Power Link Module can only be operated with the head station HS 810, HS 820 or HS 840. PL 810 can be mounted within zone 2.

The Power Link Module supplies PROFIBUS PA devices powered by the bus.For the data transmission between Power Link Module and head station a wire link has to be made between Power Link Module terminals and head station terminals

The communication is seamless. The Power Link Module does not have to be programmed. The PROFIBUS PA segment has a baud rate of 31.25 kbit/s in accordance with IEC 61158-2.

Tecnical Data

Power	
Nominal voltage	20 ... 35 V DC
Nominal current	790 mA ... 400 mA
Ripples	$\leq$ 10 %
Galvanic separation	
CH/PROFIBUS DP	Function isolation, designed isolation voltage 50 V_{eff}
PROFIBUS PA/Power	Function isolation, designed isolation voltage 50 V_{eff}
CH/Power	Function isolation nach DIN EN 50178, designed isolation voltage 50 V_{eff}
Field bus connection	
Connection	Terminals 3, 18+; 2, 17-
Profibus PA	in accordance with IEC 61158-2
Nominal voltage	24 ... 26 V
Nominal current	$\leq$ 400 mA
Terminator impedance	100 Ohm integrated
Protocol	PROFIBUS DP V1
Connection to head station	
Connection	Terminals 28+, 29-
Baud rate	31 kBit/s
Entity parameter	
Approval for zone 2	TÜV 02 ATEX 1886 X
Group, Category, ignition protection method	⟨Ex⟩ II 3 G EEx n A II T4
Standards	
Field bus standard	EN 50170/2
Galvanic separation	EN 50178
Electromagnetic compatibility	NAMUR NE 21
PROFIBUS DP V1	EN 50170/2
Protection type	IEC/EN 60529
Conformity to Directives	
Elektromagnetic compatibility	
EC-Directive	89/336/EWG
Standard	EN 61326
Explosion protection	
EG-Directive	EG94/9
Standard	EN 50021
Environmental conditions	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Relative humidity	< 75 %
Mechanical data	
Connection type	Terminals
Conductor cross section	up to 2,5 mm²
Housing	80 mm x 115 mm x 107 mm
Mass	320 g
Protection class	IP20