

PB-DP SUB-D ZF 180 TERM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Similar to illustration

Individual cable lengths are often required nowadays. In order to meet these demands, Weidmüller offers a wide range of plug-in connectors for custom assembly.

General ordering data

Version	SUB-D
Order No.	2433510000
Type	PB-DP SUB-D ZF 180 TERM
GTIN (EAN)	4050118444100
Qty.	1 Stück

Erstellungs-Datum May 25, 2023 2:20:23 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Depth	14.8 mm	Depth (inches)	0.583 inch
Height	66 mm	Height (inches)	2.598 inch
Width	31 mm	Width (inches)	1.22 inch
Net weight	25 g		

Temperatures

Humidity	Max. 75% at +25°C, non-condensing
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Technical specifications for sub-D connector

BUS interface	D-Sub 9-pole, Pin	BUS, cable interface	Tension clamp connection
Data rate	12 MBit/s	Housing main material	ZnAl
Humidity	Max. 75% at +25°C, non-condensing	Interlock	UNC4-40
Outgoing elbow	180°	Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200	Programming interface	No
Protection degree	IP30	Temperature range of housing	-20...+70 ° C
Terminating resistor available	Yes		

Classifications

ETIM 6.0	EC001132	ETIM 7.0	EC001132
ETIM 8.0	EC001132	ECLASS 9.0	27-44-03-02
ECLASS 9.1	27-44-03-90	ECLASS 10.0	27-44-03-02
ECLASS 11.0	27-44-03-02	ECLASS 12.0	27-44-03-02

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	3cc1d9b1-0f2a-47ed-a501-ddcfcfaaf625

Approvals

ROHS	Conform
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Downloads

Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN

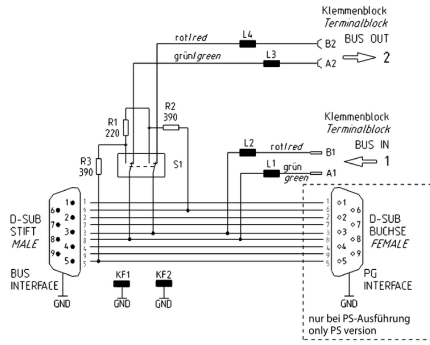
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Zeichnungen

Wiring diagram



Montageanleitung: PROFIBUS Bus-Stecker mit interner Kabelklemme



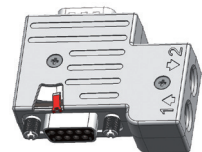
Eingang 1 und Ausgang 2	
L	(30)
L1	24
L2	7
L3	6

Art.-Nr.	Beschreibung	Abmessungen Busstecker
2433510000	PB-DP SUB-D ZF 180 TERM	62 x 31,6 x 14,8 mm



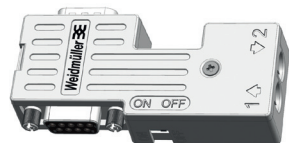
Eingang 1		Ausgang 2	
L	(30)	L	(35)
L1	24	L1	29
L2	7	L2	7
L3	6	L3	6

Art.-Nr.	Beschreibung	Abmessungen Busstecker
1173220000	PB-DP SUB-D ZF 35 TERM	64,6 x 42 x 16,8 mm
1173240000	PB-DP SUB-D ZF 35 TERM PS	64,6 x 42 x 16,8 mm



Eingang 1		Ausgang 2	
L	(35)	L	(30)
L1	29	L1	24
L2	7	L2	7
L3	6	L3	6

Art.-Nr.	Beschreibung	Abmessungen Busstecker
1161870000	PB-DP SUB-D ZF TERM	53,6 x 42 x 16,8 mm
1161880000	PB-DP SUB-D ZF T PS	53,6 x 42 x 16,8 mm



Eingang 1 und Ausgang 2	
L	(30)
L1	24
L2	7
L3	6

Art.-Nr.	Beschreibung	Abmessungen Busstecker
2004310000	PB-DP SUB-D ZF TERM S7	77,7 x 34,7 x 16,8 mm
2004320000	PB-DP SUB-D ZF T PS S7	77,7 x 34,7 x 16,8 mm

Schaltbild



Bus-Terminierung



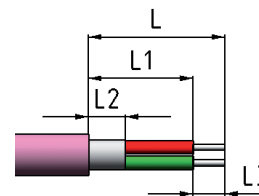
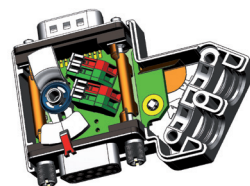
Diese Produkte sind für den Einsatz an Betriebsarten gemäß (National Electric Code) NFPA 79, bis Verschmutzungsgrad 2 zugelassen.

(Dargestellt 1173240000)



Die Befestigungsschrauben lösen
mit Pozidriv-Schraubendreher PZ1

Busstecker in geöffnetem Zustand
ohne Gehäuse-Deckel und ohne Schirmbügel.



Profibus-Kabelmantel gestuft abisolieren

(siehe Artikel)
in einem Step mit mehrstufigen Abisolierwerkzeug (empfohlen Weidmüller CST vario) oder in mehreren Steps mit Standard-Abisolierwerkzeuge. Einzeladern abisolieren mit Abisolierzange (empfohlen Weidmüller STRIPAX).



Käfigzugfeder-Klemmen öffnen

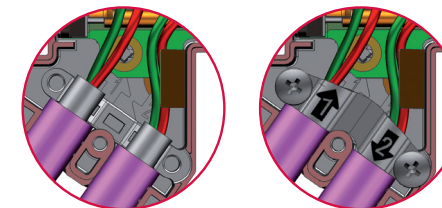
Schraubendreher mit Klinge 2,5 x 0,4 in weiße Betätigungsschieber einführen und nach vorne schieben (Pfeil 1) in Richtung Kabelausgang.



Abisolierte Einzeladern für ankommendes Profibus-Kabel
jeweils in die Klemmen A1 und B1 einführen (Pfeil 2) und Käfigzugfederklemmen schließen (Pfeil 3).

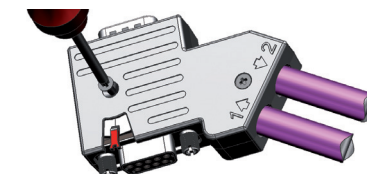
Abisolierte Einzeladern für abgehendes Profibus-Kabel
jeweils in die Klemmen A2 und B2 einführen (Pfeil 2) und Käfigzugfederklemmen schließen (Pfeil 3).

Achtung! bei SPECIAL und COMPACT
Der Schalter für den Abschlusswiderstand darf nur betätigt werden solange der D-Sub Stecker nicht schraubverriegelt ist.



Schirmbügel anziehen

Darauf achten, dass Kabelschirm flächig auf vorderer Kabelschirmauflage aufliegt (siehe linkes Bild). Die Befestigungsschrauben anziehen mit Pozidriv-Schraubendreher PZ1.
Anzugsmoment: max. 0,3 Nm.



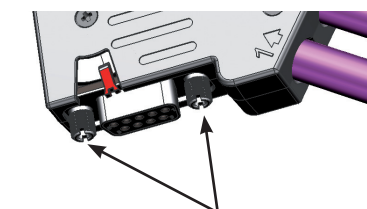
Gehäusedeckel verriegeln

Die Befestigungsschrauben anziehen mit Pozidriv-Schraubendreher PZ1
Anzugsmoment: max. 0,3 Nm.



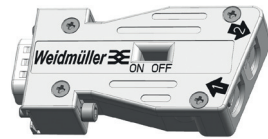
Bus-Terminierung (Abschlusswiderstände) Aus/Ein

Den Schalterhebel beim Busabschluss für aktive Terminierung in die Position „ON“ stellen. Für den eingangsseitigen Busabschluss beim 1. Teilnehmer, das abgehende Bus-Kabel auf der Eingangsseite (1) anschließen und den Schalterhebel in Position „ON“ stellen.



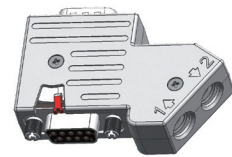
Befestigung am D-Sub der Profibus-Schnittstelle
Anzugsmoment der Rändel-Verriegelungsschraube: max. 0,3 Nm.

Mounting Instruction: PROFIBUS Bus Connectors with internal cable clamp



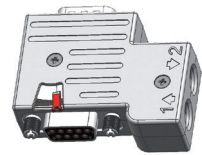
Input 1 and Output 2	
L	(30)
L1	24
L2	7
L3	6

Part No.	Description	Dimensions Bus Connector
2433510000	PB-DP SUB-D ZF 180 TERM	62 x 31,6 x 14,8 mm



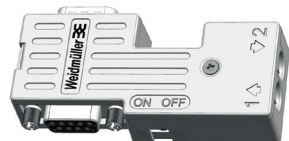
Input 1		Output 2	
L	(30)	L	(35)
L1	24	L1	29
L2	7	L2	7
L3	6	L3	6

Part No.	Description	Dimensions Bus Connector
1173220000	PB-DP SUB-D ZF 35 TERM	64,6 x 42 x 16,8 mm
1173240000	PB-DP SUB-D ZF 35 TERM PS	64,6 x 42 x 16,8 mm



Input 1		Output 2	
L	(35)	L	(30)
L1	29	L1	24
L2	7	L2	7
L3	6	L3	6

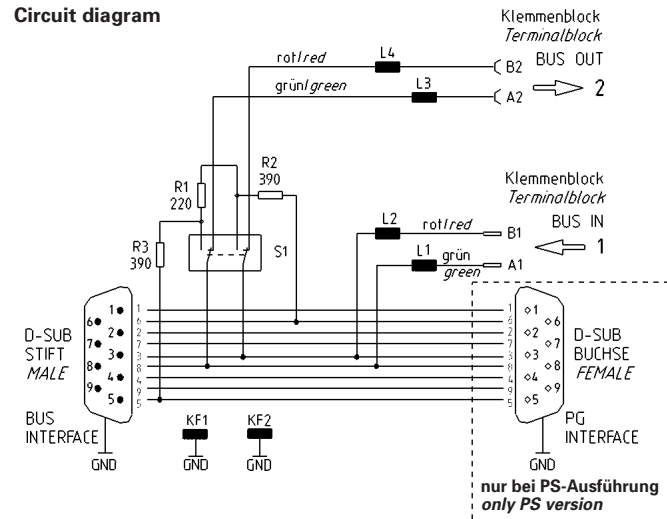
Part No.	Description	Dimensions Bus Connector
1161870000	PB-DP SUB-D ZF TERM	53,6 x 42 x 16,8 mm
1161880000	PB-DP SUB-D ZF T PS	53,6 x 42 x 16,8 mm



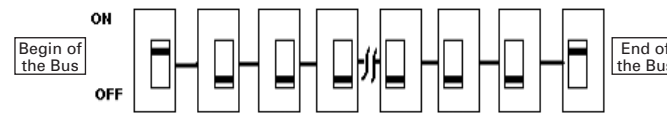
Input 1 and Output 2	
L	(30)
L1	24
L2	7
L3	6

Part No.	Description	Dimensions Bus Connector
2004310000	PB-DP SUB-D ZF TERM S7	77,7 x 34,7 x 16,8 mm
2004320000	PB-DP SUB-D ZF T PS S7	77,7 x 34,7 x 16,8 mm

Circuit diagram

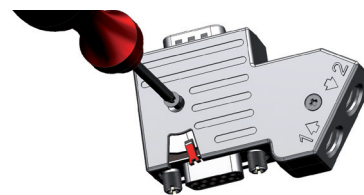


Bus Termination



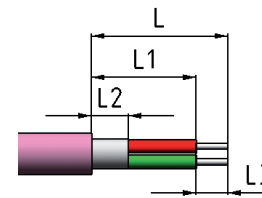
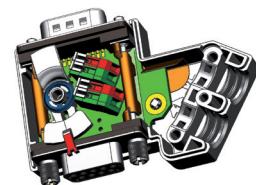
For use in NFPA 79 Applications only.
Suitable for pollution degree 2 environment only.

(Shown 1173240000)

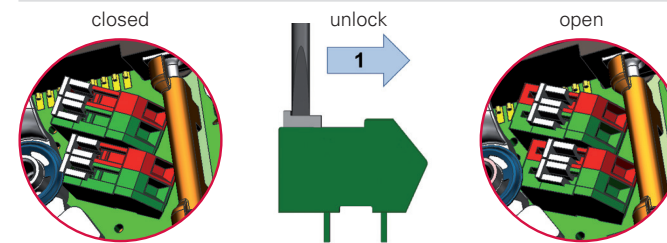


Remove the 2 fixing screws
with Pozidriv screwdriver PZ1

Bus connector in open condition
without housing cover and without
shield clamp. Clamps: Position of white
locking slide for clamp close or open.

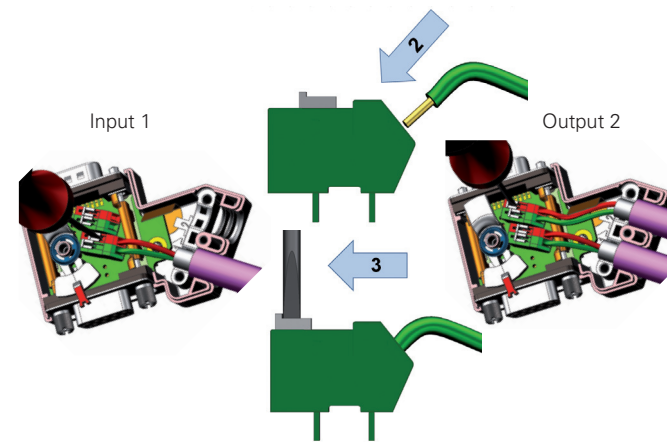


Strip off Profibus cable in one step
with multi-stage strip off tool
(recommended Weidmüller CST vario)
or with standard strip off tool in a few steps.
Strip off single wires to 6 +/-1mm and
with strip tool (recommended Weidmüller
STRIPAX).



Opening of cage clamp terminals

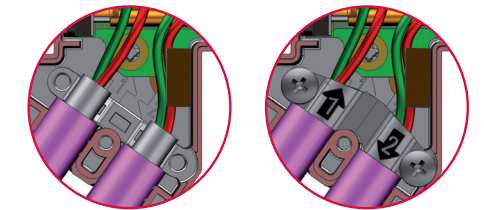
To open the terminals insert screwdriver with blade 2,5 x 0,4 into the
white locking slide and move them forward (toward the cable output).



**Insert the cable wires for the
terminals Profibus cable**
into the clamps A1 and B1 (2) and
close the terminals (3).

**Insert the cable wires for the
outgoing Profibus cable**
into A2 and B2 (2) and close the
terminals (3).

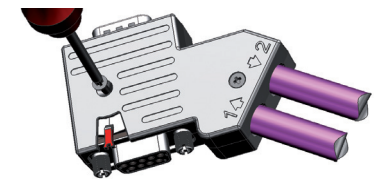
Attention! For SPECIAL and COMPACT
Only operate termination switch if the D-Sub connector is not screw
locked.



Turn on shield clamp

Take care, that the cable shield lay fully on front cable shield support
(see left picture). Lock on the 2 fixing screws with Pozidriv
screwdriver PZ1.

Torque: max. 0,3 Nm.



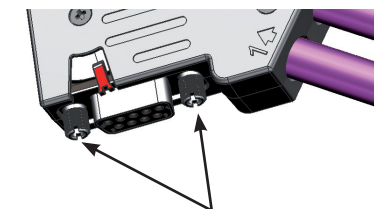
Locking of housing cover

Tighten the 2 fixing screws with Pozidriv screwdriver PZ1
Torque: max. 0,3 Nm.



Bus termination (termination resistors) OFF/ON

For the bus termination with active termination move the switch lever to
position "ON". For the bus termination for the 1st participant on the input
side the output bus cable needs to be terminated on the input side (1) and
move the switch lever to the position "ON".



Mounting on the D-Sub of the Profibus interface

Torque of knurled locking screw: max. 0,3 Nm.