PB-DP SUB-D ZF TERM S7

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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

Type	PB-DP SUB-D ZF TERM S7
Order No.	2004310000
Version	
GTIN (EAN)	4050118389005
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Net weight	70 g

Temperatures

Humidity	Max. 75% at +25°C, non-condensing

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

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	90°	Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200	Protection degree	IP30
Temperature range of housing	-20...+70 ° C	Terminating resistor available	Yes

Classifications

ETIM 6.0	EC001132	eClass 6.2	27-26-07-07
eClass 9.0	27-44-03-02	eClass 9.1	27-44-03-90

Approvals

ROHS	Conform

Downloads

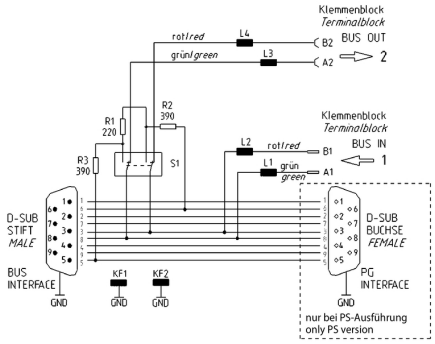
Brochure/Catalogue	FL FIELDWIRING EN

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Drawings

Wiring diagram



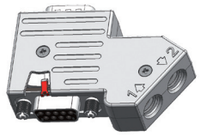
Weidmüller

Montageanleitung:
PROFIBUS Bus-Stecker mit interner Kabelklemme



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

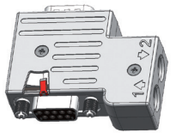
Art.-Nr.	Beschreibung	Abmessungen Busstecker
2433510000	PB-DP SUB-D ZF 180 TERM	62 x 31,6 x 14,8 mm



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

Ausgang 2	
L	(35)
L1	29
L2	7
L3	6

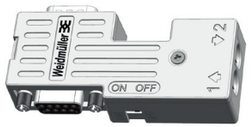
Art.-Nr.	Beschreibung	Abmessungen Busstecker
1173220000	PB-DP SUB-D ZF 35 TERM	64,6 x 42 x 16,8 mm
1173240000	PB-DP SUB-D ZF 35 TERM PS	64,6 x 42 x 16,8 mm



Eingang 1	
L	(35)
L1	29
L2	7
L3	6

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

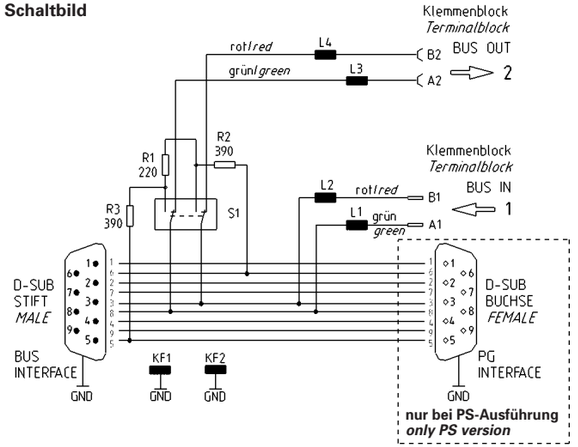
Art.-Nr.	Beschreibung	Abmessungen Busstecker
1161870000	PB-DP SUB-D ZF TERM	53,6 x 42 x 16,8 mm
1161880000	PB-DP SUB-D ZF T PS	53,6 x 42 x 16,8 mm



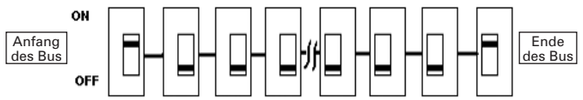
Eingang 1 und Ausgang 2	
L	(30)
L1	24
L2	7
L3	6

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

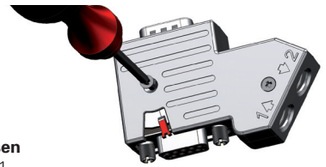


Bus-Terminierung

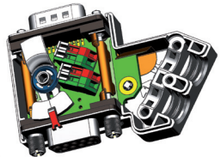


Diese Produkte sind für den Einsatz an Betriebsorten gemäß (National Electric Code) NFPA 79, bis Verschmutzungsgrad 2 zugelassen.

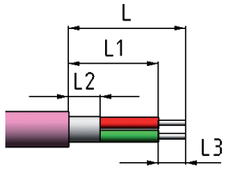
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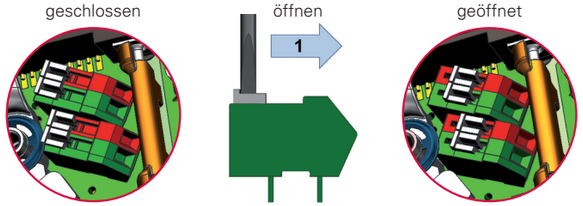
Die Befestigungsschrauben lösen
mit Pozidriv-Schraubendreher PZ1



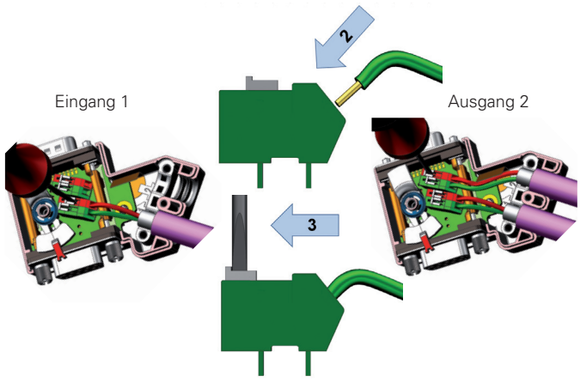
Busstecker in geöffnetem Zustand
ohne Gehäuse-Deckel und ohne Schirmbügel.



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).



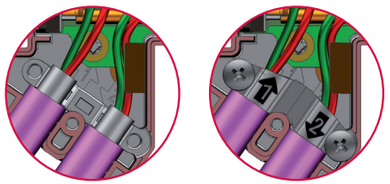
Käfigzugfeder-Klemmen öffnen
Schraubendreher mit Klinge 2,5 x 0,4 in weiße Betätigungsschieber einführen und nach vorne schieben (Pfeil 1) in Richtung Kabelausgang.



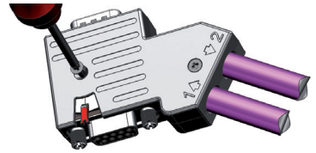
Abisolierte Einzeladern für ankommendes Profibus-Kabel
jeweils in die Klemmen A1 und B1 einführen (Pfeil 2) und Käfigzugfederklemmen schließen (Pfeil 3).

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.



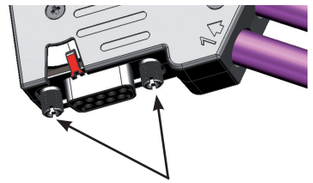
Schirmbügel anziehen
Darauf achten, dass Kabelschirm flächig auf vorderer Kabelschirmauflage aufliegt (siehe linkes Bild). Die Befestigungsschrauben anziehen mit Pozidriv-Schraubendreher PZ1.
Anzugsmoment: max. 0,3 Nm.



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.

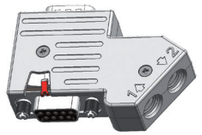
Weidmüller

Mounting Instruction:
PROFIBUS Bus Connectors with internal cable clamp



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

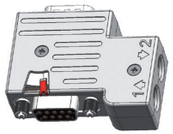
Part No.	Description	Dimensions Bus Connector
2433510000	PB-DP SUB-D ZF 180 TERM	62 x 31,6 x 14,8 mm



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

Outout 2	
L	(35)
L1	29
L2	7
L3	6

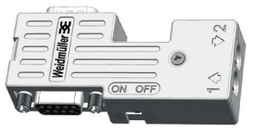
Part No.	Description	Dimensions Bus Connector
1173220000	PB-DP SUB-D ZF 35 TERM	64,6 x 42 x 16,8 mm
1173240000	PB-DP SUB-D ZF 35 TERM PS	64,6 x 42 x 16,8 mm



Input 1	
L	(35)
L1	29
L2	7
L3	6

Outout 2	
L	(30)
L1	24
L2	7
L3	6

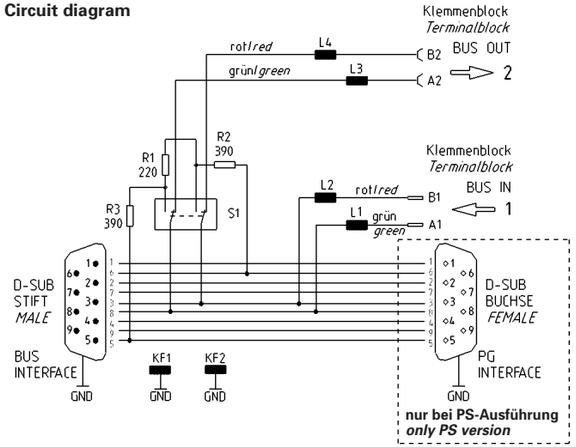
Part No.	Description	Dimensions Bus Connector
1161870000	PB-DP SUB-D ZF TERM	53,6 x 42 x 16,8 mm
1161880000	PB-DP SUB-D ZF T PS	53,6 x 42 x 16,8 mm



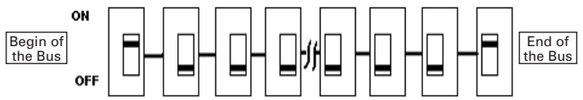
Input 1 and Outout 2	
L	(30)
L1	24
L2	7
L3	6

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

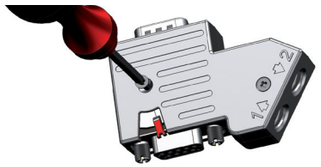


Bus Termination

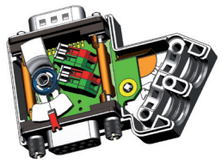


For use in NFPA 79 Applications only.
Suitable for pollution degree 2 environment only.

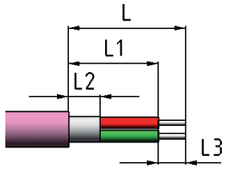
(Shown 1173240000)



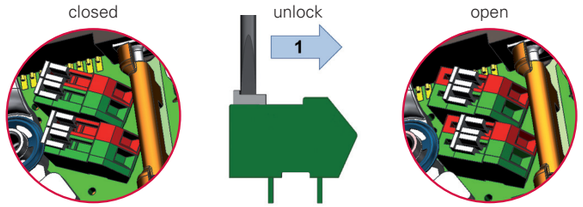
Remove the 2 fixing screws
with Pozidriv screwdriver PZ1



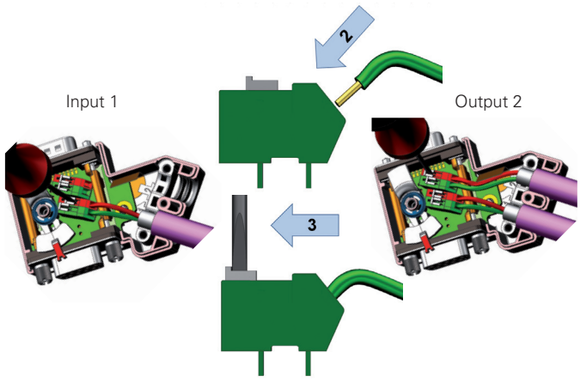
Bus connector in open condition
without housing cover and without shield clamp. Clamps: Position of white locking slide for clamp close or open.



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



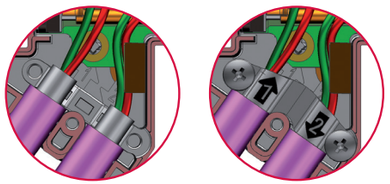
Opening of cage clamp terminals
To open the terminals insert screwdriver with blade 2,5 x 0,4 into the white locking slide and move them forward (toward the cable output).



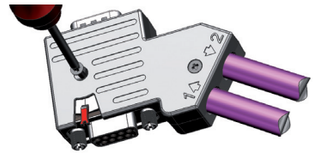
Insert the cable wires for the terminals Profibus cable
into the clamps A1 and B1 (2) and close the terminals (3).

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.



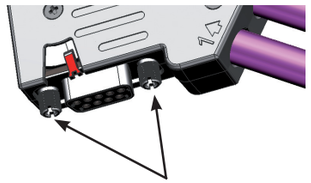
Turn on shield clamp
Take care, that the cable shield lay fully on front cable shield support (see left picture). Lock on the 2 fixing screws with Pozidriv screwdriver PZ1.
Torque: max. 0,3 Nm.



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.