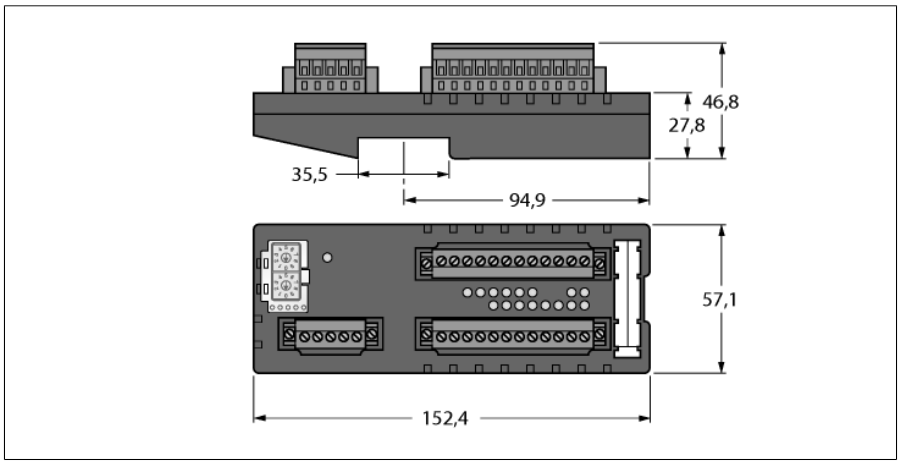
compact I/O station for PROFIBUS-DP
16 Universal Digital Channels
FDP20-16XSG-T



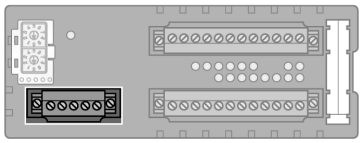
- **PROFIBUS-DP slave**
- **Removable 5-pin screw-clamp terminal block, for PROFIBUS fieldbus connection**
- **Rotary coding switch for setting the PROFIBUS address**
- **3 I/O power supply groups each galvanically separated**
- **16 universal digital channels, DI / DO**
- **24 VDC, PNP**
- **Output current: 0.5 A**
- **Protection class IP20**

Type designation	FDP20-16XSG-T
Ident no.	6611486
Number of channels	16
Electrical isolation	I/Os to PROFIBUS
internal power consumption	<75 mA plus I/O supply
Supply voltage	24 VDC
Admissible range field supply	18…30 VDC
Power dissipation, typical	≤ 1.8 W
Voltage supply connection	Pluggable screw terminal strip
Inputs	
Number of channels	16
Input voltage	18…30VDC
Low level signal voltage	< 4 V
High level signal voltage	8…24 V
Low level signal current	< 0.5 mA
High level signal current	1…3.4 mA
Input delay	2.5 ms
Max. input current	total: 700 mA
Outputs	
Number of channels	16
Output voltage	18…30 VDC
Output current per channel	0.5 A (from Aux)
Switching frequency	≤ 100 Hz
Short-circuit protection	yes
Fieldbus transmission rate	9.6 kbps …12 Mbps
Fieldbus address range	1...99
Fieldbus addressing	2 decimally coded rotary switches
Dimensions (W x L x H)	57.1 x 152.2 x 46.8 mm
Ambient temperature	-40…+55 °C
Protection class	IP20
Approvals	CE, UL
UL Certificate	pol. deg.2; surr. air temp. max. 40°C; cl.2 ps req.; tight. torque max. 0.56-0.79 Nm

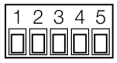
Edition • 2022-08-19T11:32:22+02:00

compact I/O station for PROFIBUS-DP
16 Universal Digital Channels
FDP20-16XSG-T

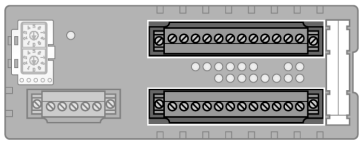
Terminal assignment



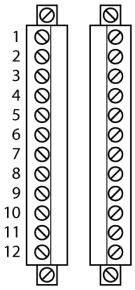
PROFIBUS-DP
Fieldbus cable (example):
D9T451-2M (ident no. 6915759) or
RSSW-451-2M (ident no. 6914229)



1 = 5 VDC
2 = GN (Bus A)
3 = Shield
4 = RD (Bus B)
5 = GND



Power Supply and I/O Channels
AUX1: Supply of the I/O channels 0 to 7
AUX2: Supply of the I/O channels 8 to 13
AUX3: Supply of the I/O channels 14 to 15
V+, V-: Supply for internal module electronics



1 = V +	13 = AUX2 +	1 = V +	13 = AUX2 +
2 = V –	14 = AUX2 –	2 = V –	14 = AUX2 –
3 = AUX1 +	15 = I/O 8	3 = AUX1 +	15 = I/O 8
4 = AUX1 –	16 = I/O 9	4 = AUX1 –	16 = I/O 9
5 = I/O 0	17 = I/O 10	5 = I/O 0	17 = I/O 10
6 = I/O 1	18 = I/O 11	6 = I/O 1	18 = I/O 11
7 = I/O 2	19 = I/O 12	7 = I/O 2	19 = I/O 12
8 = I/O 3	20 = I/O 13	8 = I/O 3	20 = I/O 13
9 = I/O 4	21 = AUX3 +	9 = I/O 4	21 = AUX3 +
10 = I/O 5	22 = AUX3 –	10 = I/O 5	22 = AUX3 –
11 = I/O 6	23 = I/O 14	11 = I/O 6	23 = I/O 14
12 = I/O 7	24 = I/O 15	12 = I/O 7	24 = I/O 15

Edition • 2022-08-19T11:32:22+02:00

Hans Turck GmbH & Co.KG ● D-45472 Mülheim an der Ruhr ● Witzlebenstraße 7 ● Tel. 0208 4952-0 ● Fax 0208 4952-264 ● more@turck.com ● www.turck.com