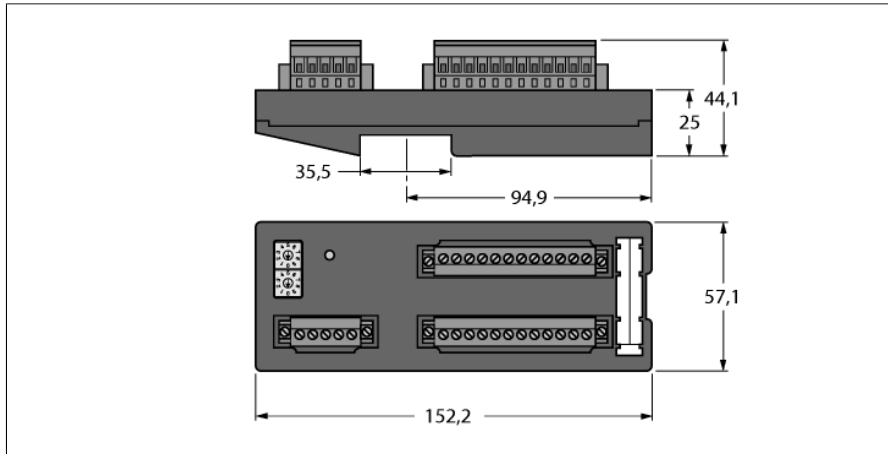


Compact I/O station for DeviceNet 16 Universal Digital Channels FDN20-16XSG

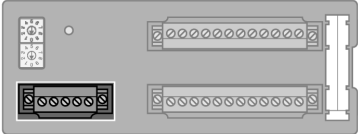
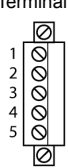
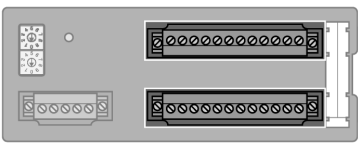
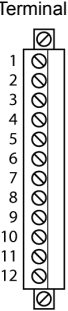


- DeviceNet slave
- Removable 5-pin screw-clamp terminal block, for DeviceNet fieldbus connection
- Rotary coding switch for setting the DeviceNet™ address
- 3 I/O supply groups galvanically isolated from each other
- 16 universal digital channels, DI / DO
- 24 VDC, PNP
- Output current: 0.5A
- Protection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

Type	FDN20-16XSG
ID	F0175
Number of channels	16
Electrical isolation	I/Os to DeviceNet
internal power consumption	<75 mA plus I/O supply
Voltage supply via DeviceNet	24 VDC
Supply voltage	24 VDC
Admissible range field supply	11...26 VDC
Power dissipation, typical	≤ 1.2 W
Inputs	
Number of channels	16
Input voltage	11...26 VDC
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
Max. input current	Total: 700 mA
Outputs	
Number of channels	16
Output voltage	18...26 VDC
Output current per channel	0.5A (from Aux)
Switching frequency	≤ 100 Hz
Short-circuit protection	yes
Fieldbus transmission rate	125/250/500 kbps
Fieldbus address range	0...63
Fieldbus addressing	2 decimally coded rotary switches

Dimensions (W x L x H)	57.1 x 152.2 x 44.1 mm
Housing material	Nylon
Ambient temperature	-40...+70 °C
Vibration test	Acc. to IEC 60068-2-6
Shock test	Acc. to IEC 60068-2-27
Protection class	IP20
UL Certificate	pol. deg.2; surr. air temp. max. 40°C; cl.2 ps req.; tight. torque max. 0.56-0.79 Nm

Terminal assignment

	DeviceNet and Power Supply Fieldbus cable (example): CBC5-572-2M (ident no. 6606065) or RKC5701-5M (ident no. 6931035)	Terminal Connection  <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>1 = V +</td><td>2 = CAN_H</td><td>3 = SHD</td><td>4 = CAN_L</td><td>5 = V -</td></tr></table>	1	2	3	4	5	1 = V +	2 = CAN _H	3 = SHD	4 = CAN _L	5 = V -																																						
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1 = V +	2 = CAN _H	3 = SHD	4 = CAN _L	5 = V -																																														
	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 Via terminals V+ and V- more devices can be fed from the De-viceNet™ supply with 24 VDC or with up to 0.7A.	Terminal Connection  <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr><tr><td>1 = V +</td><td>2 = V -</td><td>3 = AUX1 +</td><td>4 = AUX1 -</td><td>5 = I/O 0</td><td>6 = I/O 1</td><td>7 = I/O 2</td><td>8 = I/O 3</td><td>9 = I/O 4</td><td>10 = I/O 5</td><td>11 = I/O 6</td><td>12 = I/O 7</td><td>13 = AUX2 +</td><td>14 = AUX2 -</td><td>15 = I/O 8</td><td>16 = I/O 9</td><td>17 = I/O 10</td><td>18 = I/O 11</td><td>19 = I/O 12</td><td>20 = I/O 13</td><td>21 = AUX3 +</td><td>22 = AUX3 -</td><td>23 = I/O 14</td><td>24 = I/O 15</td></tr></table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1 = V +	2 = V -	3 = AUX1 +	4 = AUX1 -	5 = I/O 0	6 = I/O 1	7 = I/O 2	8 = I/O 3	9 = I/O 4	10 = I/O 5	11 = I/O 6	12 = I/O 7	13 = AUX2 +	14 = AUX2 -	15 = I/O 8	16 = I/O 9	17 = I/O 10	18 = I/O 11	19 = I/O 12	20 = I/O 13	21 = AUX3 +	22 = AUX3 -	23 = I/O 14	24 = I/O 15
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