

## FBPN-1616UN-TS

## ARTICLE PROPERTIES

<b>PRODUCT TYPE</b>	Wide form digital I/O modules	<b>PRODUCT GROUP</b>	IP20 Compact I/O
<b>DESCRIPTION</b>	IP20 wide form 16-channel digital input and 16-channel digital input / output configurable module, NPN, PROFINET, 24 V DC, IP20, DIN rail installation	<b>PU</b>	1 pc
		<b>COUNTRY OF ORIGIN</b>	CN

## TECHNICAL DATA

<b>COMMUNICATION PROTOCOL</b>	PROFINET	<b>NUMBER OF DIGITAL OUTPUTS</b>	Max. 16
<b>PROFINET I/O FEATURES</b>	Integrierter 2-Port-Switch; Autonegotiation;MRP	<b>OUTPUT TYPE</b>	NPN
<b>TRANSMISSION MEDIUM</b>	Twisted pair S-UTP; 100 Ω; Cat. 5	<b>OUTPUT VOLTAGE</b>	24 V DC
<b>TRANSMISSION RATE</b>	10/100 Mbit/s (10 Mbit/s (ETHERNET protocols), 100 Mbit/s full duplex (PROFINET IO))	<b>OUTPUT CURRENT</b>	Max. 0.5 A per channel, total 4 A per module
<b>BUS SEGMENT LENGTH (MAX.)</b>	100 m	<b>OUTPUT LOAD TYPES</b>	Resistive loads, inductive loads, lamps
<b>BUS NODE ADDRESS</b>	Set by PLC configuration software	<b>SWITCHING FREQUENCY</b>	Max. 1 kHz (Resistive loads) Max. 1 Hz (Inductive loads) Max. 10 Hz (Lamps)
<b>NUMBER OF DIGITAL INPUTS</b>	Max. 32	<b>CURRENT CONSUMPTION</b>	65 mA
<b>INPUT TYPE</b>	NPN	<b>PROCESS DATA LENGTH</b>	Input 4 bytes, output 2 bytes
<b>INPUT SIGNAL '0'</b>	0 ... 5 V DC	<b>FAULT DIAGNOSIS METHOD</b>	LED, communication message
<b>INPUT SIGNAL '1'</b>	18 ... 30 V DC	<b>FAULT DIAGNOSIS METHOD</b>	LED, communication message
<b>INPUT CURRENT PER CHANNEL FOR SIGNAL '1'</b>	Typ. 4 mA	<b>FAULT DIAGNOSIS METHOD</b>	LED, communication message

## CONNECTION DATA

<b>WIRE CONNECTION</b>	Plug-in terminal block	<b>STRIPPED LENGTHS</b>	8 ... 10 mm, 0.315 ... 0.394 in
<b>CROSS SECTION</b>	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> , AWG 28 ... 14		

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## ENVIRONMENTAL REQUIREMENTS

<b>PROTECTION CLASS</b>	IP20	<b>ELECTRICAL FAST TRANSIENT (EFT)</b>	Level A, per IEC 61000-4-4
<b>MOUNTING TYPE</b>	DIN-35mm rail	<b>ELECTRO-STATIC DISCHARGE (ESD)</b>	Level A, per IEC 61000-4-2
<b>AMBIENT TEMPERATURE</b>	-5 ... +60 °C	<b>SURGE TEST</b>	Level A, per IEC 61000-4-5
<b>STORAGE TEMPERATURE</b>	-25 ... +70 °C	<b>VIBRATION RESISTANCE</b>	4 g, per IEC 60068-2-6
<b>RELATIVE HUMIDITY</b>	95%, non-condensing	<b>SHOCK RESISTANCE</b>	15 g, per IEC 60068-2-27
<b>OPERATING ALTITUDE</b>	0 ... 2000 m / 0 ... 6562 ft	<b>EU ROHS COMPLIANCE STATUS</b>	Yes
<b>POLLUTION DEGREE</b>	2, per IEC 61131-2	<b>MATERIAL COMPLIANCE</b>	Compliant with REACH

## GENERAL DATA

<b>HOUSING MATERIAL</b>	PPE	<b>DIMENSIONS (H X W X D)</b>	70 x 120 x 37.9 mm
<b>WEIGHT</b>	240 g	<b>MTTF (25 °C)</b>	82 years
<b>COLOR</b>	Dark gray	<b>APPROVALS</b>	CE

## APPROVALS





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