

## FBEC-0032N-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 32-channel digital output module, NPN, EtherCAT, 24 V DC, IP20, DIN rail installation	<b>PU</b>	1 pc
		<b>COUNTRY OF ORIGIN</b>	CN

## TECHNICAL DATA

<b>COMMUNICATION PROTOCOL</b>	EtherCAT	<b>OUTPUT VOLTAGE</b>	24 V DC
<b>TRANSMISSION MEDIUM</b>	Shielded twisted pair S/FTP, F/FTP or SF/FTP; 100 Ω; Cat. 5	<b>OUTPUT CURRENT</b>	Max. 0.5 A per channel, total 4 A per module
<b>TRANSMISSION RATE</b>	100 Mbit/s	<b>OUTPUT LOAD TYPES</b>	Resistive loads, inductive loads, lamps
<b>BUS SEGMENT LENGTH (MAX.)</b>	100 m	<b>SWITCHING FREQUENCY</b>	Max. 1 kHz (Resistive loads) Max. 1 Hz (Inductive loads) Max. 10 Hz (Lamps)
<b>BUS NODE ADDRESS RANGE</b>	Address allocation by PLC	<b>CURRENT CONSUMPTION</b>	70 mA
<b>NUMBER OF DIGITAL OUTPUTS</b>	32	<b>PROCESS DATA LENGTH</b>	Output 4 bytes
<b>OUTPUT TYPE</b>	NPN	<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		

## 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

FBEC-0032N-TS

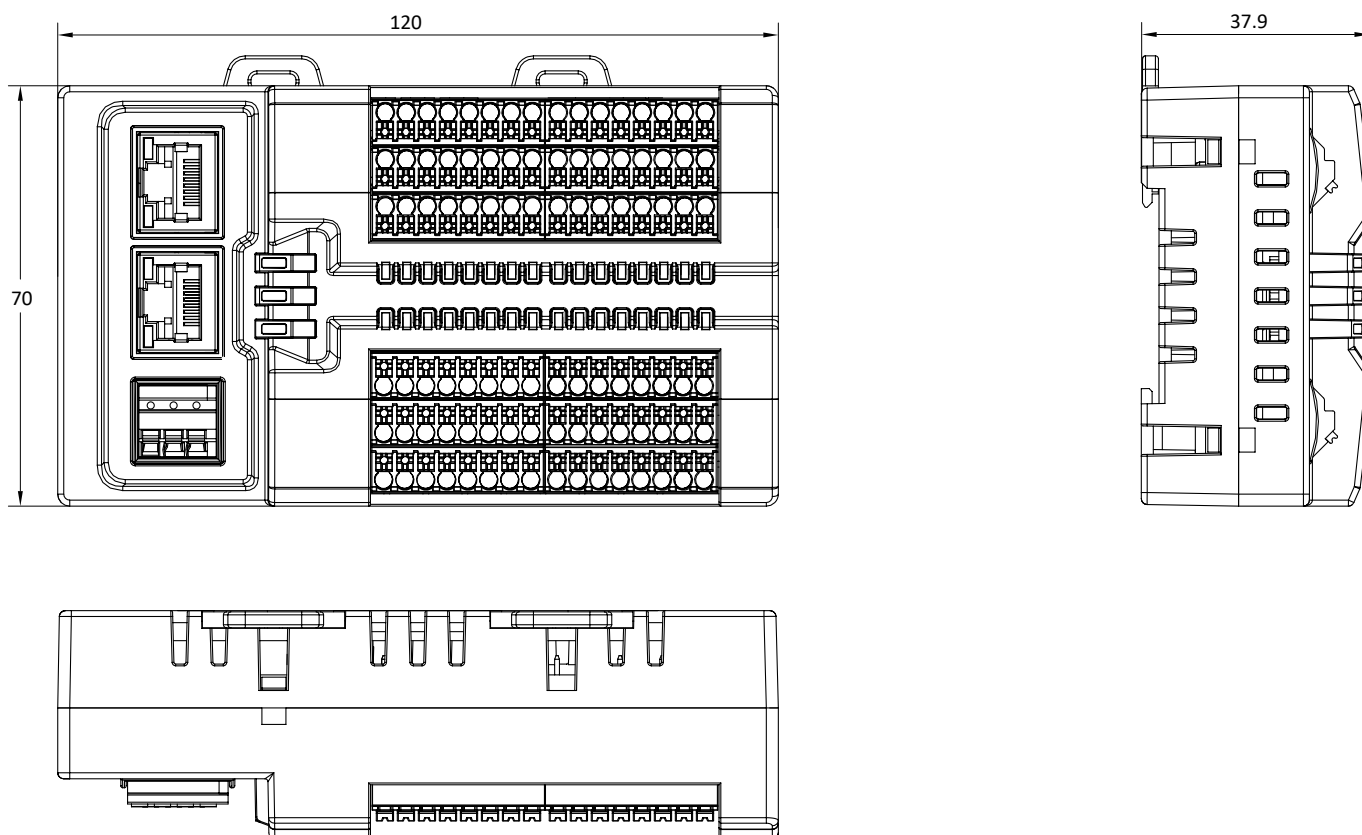
GENERAL DATA

<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>	79 years
<b>COLOR</b>	Dark gray	<b>APPROVALS</b>	CE

APPROVALS



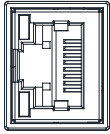
DIMENSIONS (mm)



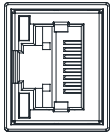
FBEC-0032N-TS

TERMINAL DEFINITION

X1



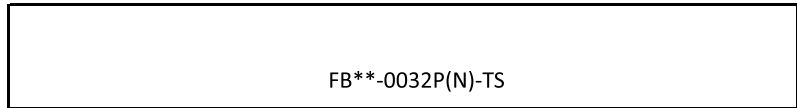
X2



24V+	GND	PE
L	M	PE

0V								
24V								
I/O	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
	1	2	3	4	5	6	7	8

	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
	9	10	11	12	13	14	15	16



I/O	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24
24V								
0V								

	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32
	25	26	27	28	29	30	31	32

**FBEC-0032N-TS**

---

**SALES AND SERVICE****Tianjin Elco Automation Co., Ltd**

No. 12, 4th XEDA Branch Road  
Xiqing Economic-Technological Development Area  
Tianjin 300385, P.R. China  
Office Phone: 022 23788282  
E-Mail: [info@elco.cn](mailto:info@elco.cn)  
[www.elco-holding.com.cn](http://www.elco-holding.com.cn)

**Elco Industrie Automation GmbH**

Benzstrasse 7  
71720 Oberstenfeld,  
Deutschland  
Office Phone: +49 7062 / 6599-260  
E-Mail: [info@elco-automation.de](mailto:info@elco-automation.de)  
[www.elco-automation.de](http://www.elco-automation.de)

**Elco Automation LLC**

1097 Highway 101 South, Suite D-3 Greer  
South Carolina 29651, USA  
Office Phone: +1 864-581-7431  
E-Mail: [infousa@elcoautomation.com](mailto:infousa@elcoautomation.com)  
[www.elcoautomation.com](http://www.elcoautomation.com)

**Elco Industrial Automation Pvt Ltd.**

No 80, 1<sup>st</sup> Main, 2<sup>nd</sup> Cross, Royal Enclave,  
Sidedahalli, Nagasandra Bangalore 560073, India  
Office Phone: +91-7259931777  
E-Mail: [info@elcoautomation.in](mailto:info@elcoautomation.in)  
[www.elcoautomation.com](http://www.elcoautomation.com)

**Elco Automation Korea Ltd.**

706, 17 Daehak 4-ro, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Republic of Korea, 16226  
Office Phone: +82-31-216-7890  
E-Mail: [sales@elcoautomation.co.kr](mailto:sales@elcoautomation.co.kr)  
[www.elcoautomation.com](http://www.elcoautomation.com)