Date: 06.12.2016

EN_BTKXX_03+_E_BTKXX_03

Ethernet IP Operating Unit with Extension Modules for Plant Engineering Construction

Communication

Ethernet IP specification:	10 and 100 MBaud autodetect
Supported protocols:	UDP/IP, TCP/IP
Bus connection:	2 port electrically isolated via RJ45
ESD file:	UNIGATE IC-EI 2Port.esd
Script software:	SW_2EN12085_V00.dss
Transmission	8 Byte In 8 Byte Out

http://www.schlegel.biz/web/de/supportcenter/downloadbereich/software.php

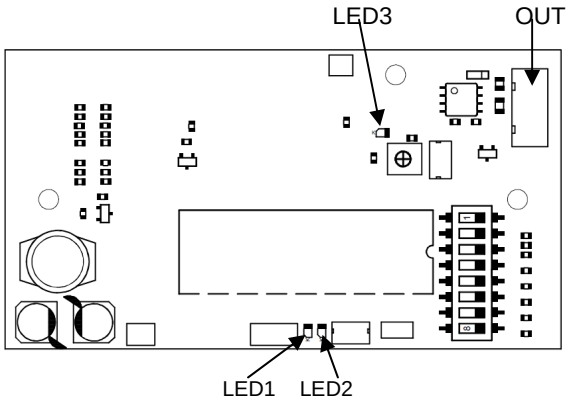
Self test of actuators and pilot lights	The module is doing the self test via DIP switch on. The corresponding LED of the actuator illuminates in case it is actuated
Status LEDs within the system:	
Supply voltage	LED1 is green in case system voltage 24V DC is available
Connection set-up	LED2 is blinking red in case of communication set-up LED2 is red in case connection has been set-up
Supply voltage	LED3 24 V system voltage is available LED4 3.3 V operating voltage is available
DIP switch S1 - S7:	Setting of the IP address **192.168.1.xxx** from 1 to 127.
DIP switch S1 – S8 off:	The IP address can be allocated via DHCP. Calculation of the MAC address from the serial number of IC. MAC1 to MAC3 = 00-14-11 MAC4 to MAC6 = serial number – 28950000, then convert result to a hex value. ➔ 8A903E



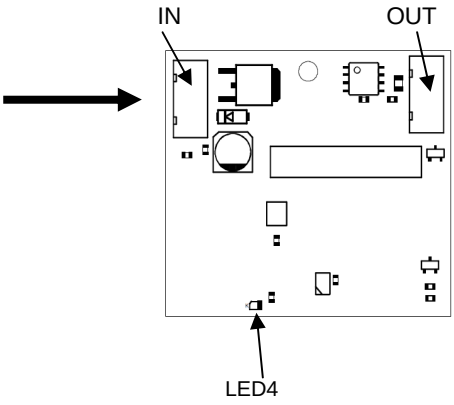
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Connection	X1: external supply voltage 24V/DC, 2 pole spring terminal X2; X3: RJ 45 jack
Cross section, flexible	min. 0.25mm² max. 2.5mm²

Basic module



Extension



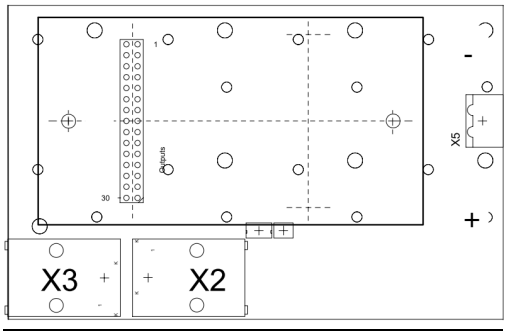


Illustration can be different

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Ambient Conditions

Opeating temperature:	-10°C ... +50°C
Storage temperature:	-40°C ... +60°C
Humidity:	up to 95%, non-condensing
IP degree:	IP00

Electrical Data

Basic module EN_BTK(XX)_03

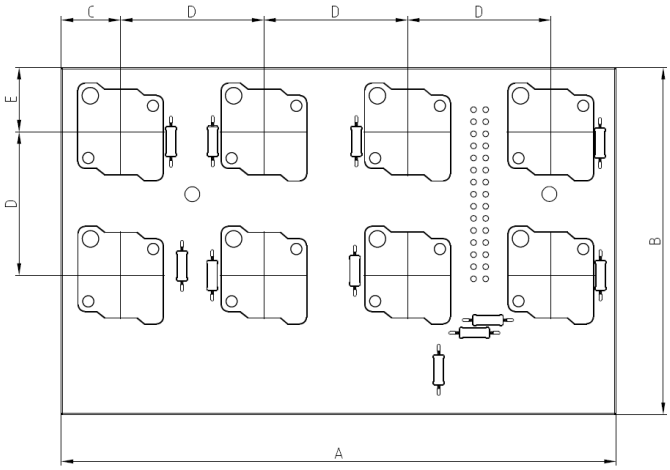
Supply voltage:	24 V, from extenal power supply
Maximum power consumption:	depending on the extension modules
Basic module	200 mA
Input:	
actuators	8 x CTP
Output:	
pilot light	8 x LED white
Dimensions,at XX	25: A 99mm, B 70mm, C 11.8mm, D 25mm, E 12.3mm 27: A 105mm, B 70mm, C 10.7mm, D 27mm, E 13.3mm 30: A 115mm, B 72mm, C 12.5mm, D 30mm, E 13.4mm

Extension module E_BTK(XX)_03

Supply voltage:	from basic module
Maximum power consumption:	≤ 150 mA
Input:	
actuators	8 x CTP
Output:	
pilot lights	8 x LED white
Dimensions, at XX	25: A 97mm, B 47mm, C 11.5mm, D 25mm, E 11.5mm 27: A 104mm, B 53mm, C 10.8mm, D 27mm, E 13.3mm 30: A 113mm, B 58mm, C 11.0mm, D 30mm, E 14.0mm

Norms and Standards CE

EC_BTK



E_BTK

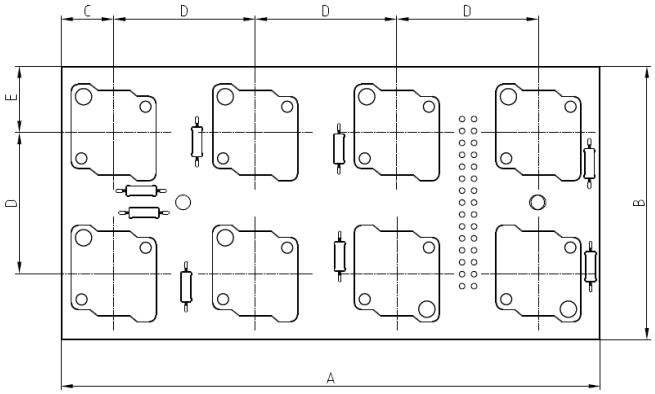


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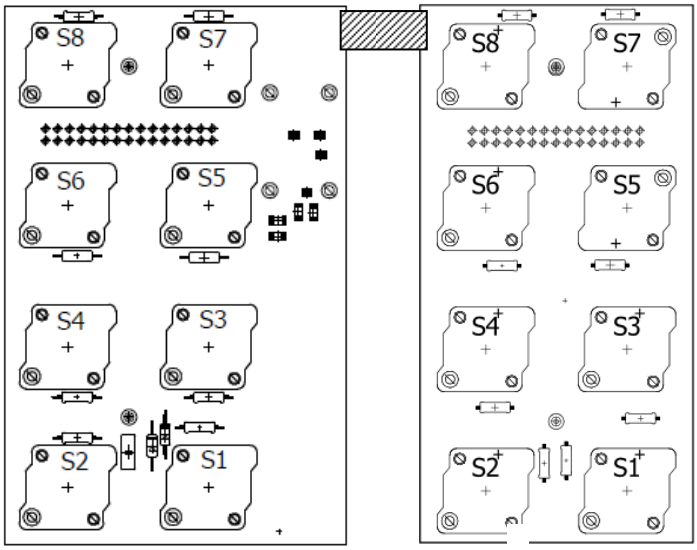
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Layout illustration

Basic module Extension module



Data bytes

Byte 1	*Data byte S1-1 – S8-1*
Byte 2	*Data byte S1-2 – S8-2*
Byte 3	*Data byte S1-3 – S8-3*
Byte 4	*Data byte S1-4 – S8-4*
Byte 5	*Data byte S1-5 – S8-5*
Byte 6	*Data byte S1-6 – S8-6*
Byte 7	*Data byte S1-7 – S8-7*
Byte 8	*Data byte S1-8 – S8-8*

Allocation of data bit in byte

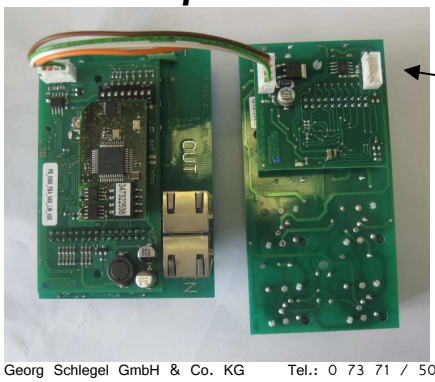
Input Data

Information	Data Bit	
Byte 1 to 8	Bit 0	switching contact S1
	Bit 1	switching contact S2
	Bit 2	switching contact S3
	Bit 3	switching contact S4
	Bit 4	switching contact S5
	Bit 5	switching contact S6
	Bit 6	switching contact S7
	Bit 7	switching contact S8

Output Data

Information	Data Bit	
Byte 1 to 8	Bit 0	illumination S1
	Bit 1	illumination S2
	Bit 2	illumination S3
	Bit 3	illumination S4
	Bit 4	illumination S5
	Bit 5	illumination S6
	Bit 6	illumination S7
	Bit 7	illumination S8

Connection photo



Connection jack for further 15 extension modules of the type E_BTKXX_03

Attention: The extension modules may only be connected in zero potential condition.
Coding pin has to be considered!

– Subject to alterationsn –

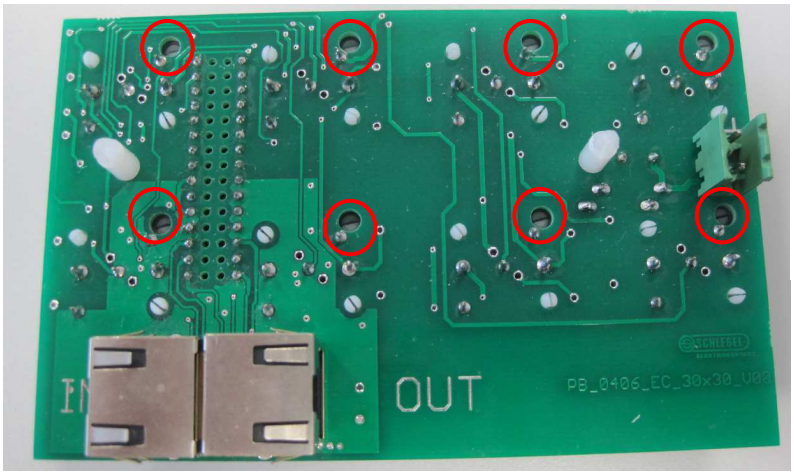
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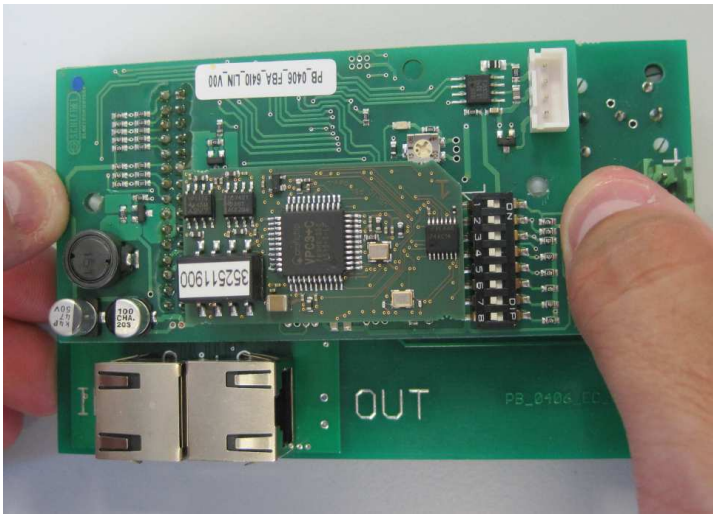
Assembly instruction:

Assembly of PCB to the actuators



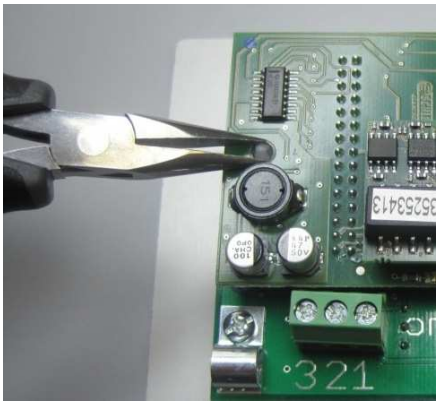
Take off the fieldbus unit and put on the PCB to the actuators.
Then turn the 8 locking pins clockwise in order to fix the actuators to the PCB.

Assembly of the fieldbus unit



Snap-on the fieldbus unit to the locking bolts by uniform pressing.

Disassembly of the fieldbus unit



In case of disassembly of the fieldbus unit, press the locking bolts with needle-nosed pliers and pull the field bus unit slightly at the same time.

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