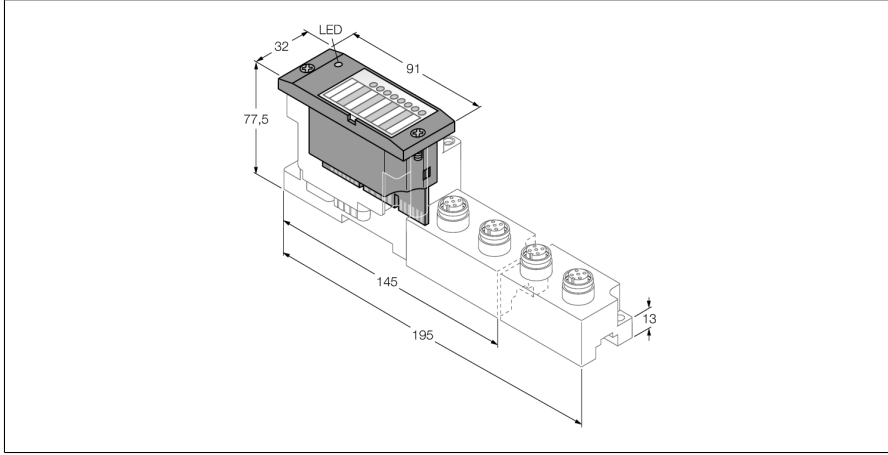


BL67 electronic module

16 Digital Outputs, PNP, 0.1 A

BL67-16DO-0.1A-P



- Kullanılan fieldbus ve bağlantı teknolojisinden bağımsız
- Koruma sınıfı IP67
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 16 digital outputs, 24 VDC
- 0.1A nominal current
- $I_{max} = 180$ mA per channel with 50% simultaneity of the 16 channels
- PNP
- Channel diagnostics
- From version VN 01-07 and higher, the module supports accelerated start-up for applications with Fast Start-Up (FSU) and QuickConnect (QC).

Tip	BL67-16DO-0.1A-P
Tanıt. no.	6827221

Kanal sayısı	16
Besleme gerilimi	24 VDC
Nominal gerilim V_o	24 VDC
Alan beslemesinden gelen nominal akım	≤ 100 mA
Modül veri yolundan gelen nominal akım	≤ 30 mA
Max. sensor supply I_{sens}	4 A electronically limited current supply via gateway or power feed
max. load current I_o	10 A via gateway or power feed
Güç dağılımı, tipik	≤ 1.5 W

Çıkış bağlantısı	M8, M23
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Çıkış tipi	PNP
Çıkış voltajı	24 VDC
Kanal başına çıkış akımı	100 mA nominal current ($I_{max} = 140$ mA version VN 01-05 and higher, $I_{max} = 180$ mA version VN 01-06 and higher)
Çıkış gecikmesi	3 ms
Yük tipi	resistive, inductive
Yük direnci, dirençli	$> 250 \Omega$
Yük direnci, endüktif	< 1.2 H
Anahtarlama frekansı, dirençli	< 200 Hz
Anahtarlama frekansı, endüktif	< 2 Hz
Anahtarlama frekansı, lamba yükü	< 20 Hz
Kısa devre koruması	evet
Simultaneity factor	1 ($I_{max} \leq 120$ mA), 0.5 ($I_{max} \leq 180$ mA)
Elektrik yalıtımı	electronics for the field level

Tanımlama bit sayısı	16
Parametre bayt sayısı	2

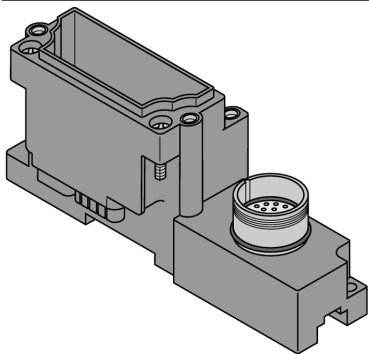
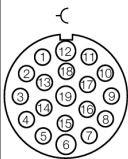
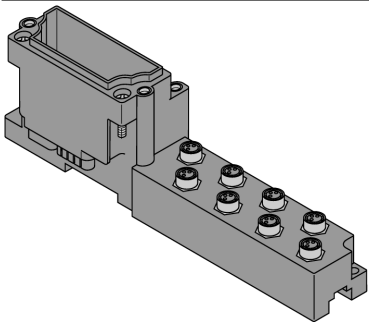
İşlevsel prensip

BL67 electronic modules are plugged on the purely passive base modules which in turn are connected to the field devices. The separation of connection level and electronics simplifies maintenance considerably. Flexibility is enhanced because the user can choose between base modules with different connection technologies.

The electronic modules are completely independent of the higher level fieldbus through the use of gateways.

Boyutlar (W x L x H)	32 x 91 x 59 mm
Onaylar	CE, cULus
Ortam sıcaklığı	-40...+70 °C
Sıcaklık değeri kaybı	
> 55°C Sabit ortam havası	Simultaneity factor 0.5
Saklama sıcaklığı	-40...+85 °C
Bağıl nem	%5...95 (dahili), seviye RH-2, yoğuşmasız (45°C'de depolandığında)
Titreşim testi	EN 61131 uyarınca
- up to 5 g (at 10 to 150 Hz)	for mounting on DIN rail no drilling according to EN 60715, with end bracket
- up to 20 g (at 10 up to 150 Hz)	for mounting on base plate or machinery Therefore every second module has to be mounted with two screws each.
Darbe testi	IEC 60068-2-27 uyarınca
Düşme ve devrilme	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Elektromanyetik uyumluluk	EN 61131-2 uyarınca
IP Derecesi	IP67
Tightening torque fixing screw	0,9...1,2 Nm

Compatible base modules

Ölçekli çizim	Type	Pin configuration
	BL67-B-1M23-19 6827216 1 x M23, 19-pole, female Comments field-wireable connector (for example): FW-M23ST19Q-G-LT-ME-XX-10 Ident-No. 6604208	Tel ataması  1 = Output 14 11 = Output 12 2 = Output 10 12 = PE 3 = Output 6 13 = Output 11 4 = Output 3 14 = Output 7 5 = Output 2 15 = Output 0 6 = GND 16 = Output 4 7 = Output 1 17 = Output 8 8 = Output 5 18 = Output 15 9 = Output 9 19 = V_{SENS} 10 = Output 13
	BL67-B-8M8-4-P 6827384 8 x M8, 4-pin, female, paired	Tel ataması  1 = V_{SENS} 2 = Signal A 3 = GND 4 = Signal B

LED display

LED	Color	Status	Meaning
D		OFF	No error message or diagnostics active.
	RED	ON	Failure of module bus communication. Check if more than 2 adjacent electronic modules are pulled. Relevant modules are located between gateway and this module.
	RED	FLASHING (0.5 Hz)	Upcoming module diagnostics
DO channels 0...15		OFF	Output status x/y = 0 (OFF), no active diagnostics
	GREEN	ON	Output status x/y = 1 (ON)
	RED	ON	Short-circuit/overload at output x/y

Attention

The channel-LEDs of this module indicate the status of two outputs per channel:

- LED 0 = Status channel 0 / 1
- ...
- LED 7 = Status channel 14 / 15

The red LED is always ON, meaning the channel diagnostics is constantly indicated!

Data mapping

DATA	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Output	m	DO 7	DO 6	DO 5	DO 4	DO 3	DO 2	DO 1	DO 0
	m+1	DO 15	DO 14	DO 13	DO 12	DO 11	DO 10	DO 9	DO 8

n = Offset of input data; depending on extension of station and the corresponding fieldbus.

m = Offset of output data; depending on extension of station and the corresponding fieldbus.

With PROFIBUS, PROFINET and CANopen, the I/O data of this module is localized

within the process data of the whole station via the hardware configuration tool of the fieldbus master.

With DeviceNet™, EtherNet/IP™ and Modbus TCP a detailed mapping table can be created with the TURCK configuration tool I/O-ASSISTANT.

Pin assignment at corresponding base module:

DATA	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
BL67-B-1M23-19									
Output	m	C0 P14	C0 P3	C0 P8	C0 P16	C0 P4	C0 P5	C0 P7	C0 P15
	m+1	C0 P18	C0 P1	C0 P10	C0 P11	C0 P13	C0 P2	C0 P9	C0 P17

C... = slot no., P... = pin no.