BARTEC

BCS3600ᵉˣ-NI Hand-held scanner

Supply modules

The supply modules are used for an intrinsically safe supply (barrier) of the hand-held scanners and contain a safety barrier (evaluation barrier) for the data lines in a potentially explosive atmosphere.

The data lines can be connected from the hazardous area to non-Ex systems, e.g. PCs or PLCs, without an additional barrier/safety barrier. The data interface to be used can be set with a barcode. These adjustment possibilities make it easier for an existing old system to subsequently be converted and modified.

– Certified for Zone 2 and Div. 2 hazardous areas
– Enables connection of scanner to non-Ex systems
– Variety of serial interfaces and connecting cables supported
– Max. cable length 1.200 m

BARTEC

Universal supply module

for BCS3608ex-NI Hand-held scanner

Explosion protection

Marking ATEX	⬡ II 3G Ex ec [ic] IIC T4 Gc ⬡ II 3G Ex tc [ic] IIIC T80°C Dc IP 64
Certification	EPS 16 ATEX 1 113 X
Marking IECEx	Ex ec [ic] IIC T4 Gc Ex tc [ic] IIIC T80°C Dc IP 64
Certification	IECEx EPS 16.0050X

Other approvals and certificates, see
www.bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Relative humidity	5 % ~ 95 % (condensing)
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Technical data

Size (H x W x D)	81 x 222 x 88 mm (3.2 x 8.7 x 3.5 inch)	
Weight	approx. 1070 g (approx. 2.36 lb)	
Input voltage	DC 24 V ± 10% / 0.2 A / 5 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.1 A / 6 W	
Color	black	
Material	Thermoplastic	
Supported serial interfaces	Universal supply module to PC/Host	max. cable length
	USB-SPP*	5 m
	RS232	15 m
	RS422	1000 m
	RS485	1200 m
	* USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	
Connection to hand-held scanner	One hand-held scanner can be connected to the universal supply module.	

Data transmission/ Data processing	– **Unidirectional:** Data can be sent from the scanner to another system via the universal supply module. – **Note on data transmission:** Bidirectional data transmission is not supported. – **Note on data processing:** All serial interfaces available on the universal supply module have no intelligence of their own. – The interface itself is not able to process/ handle incoming data. A software application (e.g. software Keyboardwedge) is required. (not available in the scope of delivery from BARTEC).
Serial parameters	The serial parameters of the Universal supply module are preset to the following parameters. The baud rate can be adjusted up to 115200 baud. The other parameters are preset and cannot be reprogrammed.

Baud rate	9600 Baud
Parity	None
Stop bits	1 Bit
Data bits	8 Bit
Hardware Handshaking	None
Software Handshaking	None

Warranty	1 year
Scope of delivery	Universal supply module
Also required	(not included in the delivery) – Connecting cable from universal supply module to hand-held scanner – Connecting cable from universal supply module to PC/Host: Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better

Accessories

See datasheet: BCS3600ex-NI Accessories
It is absolutely necessary to use original accessories from BARTEC!

Ordering information

Universal supply module corded for BCS3608ex-NI Hand-held scanner	B7-A2Z0-0042

BARTEC

Universal supply module

for BCS3678ex-NI Hand-held scanner

Explosion protection

Marking ATEX	⬡ II 3G Ex ec IIC T4 Gc ⬡ II 3D Ex tc IIIC T80°C Dc IP 64
Certification	EPS 18 ATEX 1 013 X
Marking IECEx	Ex ec IIC T4 Gc Ex tc IIIC T80°C Dc IP 64
Certification	IECEx EPS 18.0009X

Other approvals and certificates, see
www.bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Relative humidity	5 % ~ 95 % (condensing)
Protection class (IEC 60529)	IP 65
Insensitivity to ambient light	0 to 108.000 lux (in direct sunlight)

Technical data

Size (H x W x D)	81 x 208 x 88 mm (3.2 x 8.2 x 3.5 inch)	
Weight	approx. 1070 g (approx. 2.36 lb)	
Input voltage	DC 24 V ± 10% / 0.05 A / 0.7 W AC 100 V - 240 V ±10% / 50/60 Hz / 0.01 A / 1 W	
Color	black	
Material	Thermoplastic	
Supported serial interfaces	Universal supply module to PC/Host	max. cable length
	USB-SPP*	5 m
	RS232	15 m
	RS422	1000 m
	RS485	1200 m
	* USB only works as SPP (Serial Port Profile), HID (Human Interface Device) is not supported.	
Connection to hand-held scanner	One hand-held scanner can be paired to the universal supply module (Point to Point). The hand-held scanner connects to the universal supply module via Bluetooth. The universal supply module is recognised as a serial connection by the PC/host.	

Data transmission/ Data processing	– **Unidirectional:** Data can be sent from the scanner to another system via the universal supply module. – **Note on data transmission:** Bidirectional data transmission is not supported. – **Note on data processing:** All serial interfaces available on the universal supply module have no intelligence of their own. – The interface itself is not able to process/ handle incoming data. A software application (e.g. software Keyboardwedge) is required. (not available in the scope of delivery from BARTEC).
Bluetooth	Bluetooth 4.2 (LE), Class 2, Radio range (direct visual contact outside –laboratory values) with BCS3678ex, Class 2: up to 100 m (300 ft.) only when receiving data
Serial parameters	The serial parameters of the Universal supply module are preset to the following parameters. The baud rate can be adjusted up to 115200 baud. The other parameters are preset and cannot be reprogrammed.

Baud rate	9600 Baud
Parity	None
Stop bits	1 Bit
Data bits	8 Bit
Hardware Handshaking	None
Software Handshaking	None

Warranty	1 year
Scope of delivery	Universal supply module
Also required	(not included in the delivery) – Connecting cable from universal supply module to PC/Host: Please use commercially available shielded data cables to avoid external interference. Recommendation: CAT5; similar or better

Accessories

See datasheet: BCS3600ex-NI Accessories
It is absolutely necessary to use original accessories from BARTEC!

Ordering information

Universal supply module Bluetooth for BCS3678ex-NI Hand-held scanner	B7-A2Z0-0043