BARTEC

Supply modules BCS3600ex–NI

Datasheet

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.

Universal supply module for hand-held scanner BCS3608ex-NI

Explosion protection

Marking ATEX	Ex II 3G Ex ec [ic] IIC T4 Gc Ex 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 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 mm x 222 mm x 88 mm (3.2 inch x 8.7 inch 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.

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).
Connection to hand-held scanner	One hand-held scanner can be connected to the universal supply module.
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 hand-held scanner BCS3608ex-NI	B7-A2Z0-0042

Universal supply module for hand-held scanner BCS3678ᵉˣ-NI

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.	

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).
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.
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

Explosion protection

Marking ATEX	Ex II 3G Ex ec IIC T4 Gc Ex 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 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 mm x 208 mm x 88 mm (3.2 inch x 8.2 inch 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

Accessories

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

Ordering information

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