HSM / CONVERTER

OUTPUT MODULE DATASHEET
23.06.21

bqt
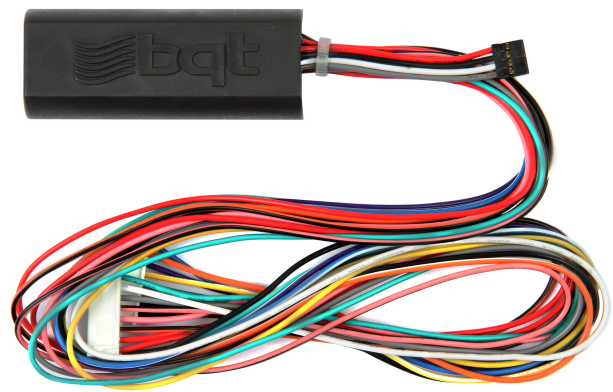SOLUTIONS

PRODUCT

The HSM is a multipurpose in-line device to provide high security encryption or data conversion that can be purchased preconfigured or customised to suit any requirement. Can solve issues such as data loss on long cable runs or unsecure wiegand communications.
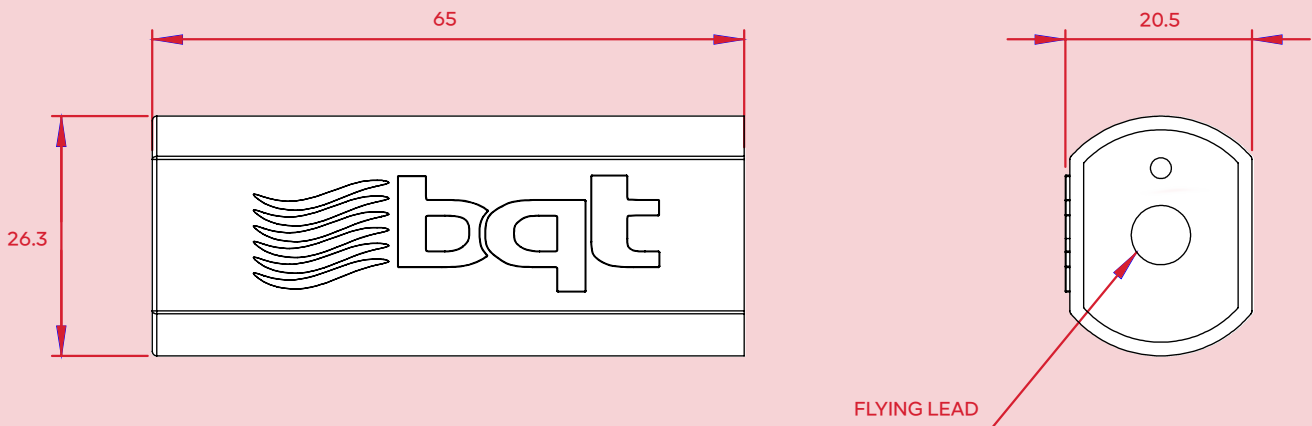
FEATURES

- **High Security**
  Encrypted communication travels between the BQT Smart Reader and the HSM, ensuring an absolute secure information path that cannot be compromised whether it be wall enclosed or a remote site such as an access gate. The HSM decryption module is recommended to be installed inside the control panel or other secure area.

- **Transmission**
  The connection between a BQT Smart Reader and an HSM is via RS485 communication, thus allowing the cable run to be up to 1.2km (4,000 ft) in length, providing greater flexibility and a reduction in installation costs.

- **Compatibility**
  The HSM will decrypt to a Wiegand format for compatibility with most old and new access control panels. This provides a security upgrade pathway without the need to change the control panel.

- **Converter**
  Output modules can also be purchased in other formats to provide compatibility between many different reader output formats and controllers. Such as RS485, OSDP, or even between different Wiegand formats.

- **Secure Data Encryption Kit**
  A kit can be purchased to provide a secure information path by providing encryption and decryption of wiegand singals at both ends of transmission. Recommended when a wiegand line requires longer cable runs and secure encryption away from the termination points.

SPECIFICATIONS

- **Voltage at Reader**
  11VDC to 13VDC

- **Current Usage**
  Average: 60mA
  Peak: 100mA

- **Operating Temperature**
  -25°C to +65°C (-13°F to +149°F)

- **Relative Humidity (% max)**
  90%, operating non condensing

- **Reader Dimensions**
  65mm (2.56") X 26.3mm (1.04") X
  20.5mm (0.81")

- **Materials**
  Module Body: ABS Plastic
  Colour Finish: Charcoal

- **Feedback**
  Green/Red LED

- **HSM Encryption**
  128-bit AES Encrypted RS485

- **Converter I/O Formats**
  Wiegand, Plain/Encrypted RS485,
  OSDP

- **Compliance and Certification**
  FCC, CE, UKCA, RCM, RoHS, IP65

- **Module Variants**
  B1000 – High Security Module (HSM)
  B1002 – Wiegand-RS485 Converter
  B1003 – RS485-Wiegand Converter
  B1004 – Wiegand-Wiegand Converter
  B1009 – Secure Data Encryption Kit
  B1010 – OSDP-Wiegand Converter

DIAGRAM

DIAGRAMS ARE NOT TO SCALE. MEASUREMENTS ARE IN MILLIMETERS (MM).

65

26.3

20.5

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