

## Electronic Throttle Body ETB

The electronic throttle body (ETB) is part of an electronic throttle control system (ETC). The ETC contains furthermore an electronic acceleration pedal or a redundant rotary potentiometer for a mechanical throttle body.

Different bore diameters are available on request. Exemplarily on this datasheet we present a version with a bore diameter of 82 mm [1] and a second with a bore diameter of 46 mm [2].



| Application       |  |
|-------------------|--|
| Temperature range | -40 ... 140 °C                                 |
| Max. vibration    | 50 ... 250 m/s <sup>2</sup> at 50 Hz ... 2 kHz |

| Mechanical Data   |  |
|-------------------|--|
| Size of housing   | [1] 150 x 80 x 145 mm<br>[2] 125 x 80 x 115 mm |
| Weight            | [1] 950 g<br>[2] 940 g                         |
| Tightening torque | 10 Nm  |

| Electrical Data                |            |
|--------------------------------|------------|
| Supply voltage ETB             | 6 ... 16 V |
| Supply voltage sensor          | 5 ± 0.2 V  |
| Max. allowed generator current | < 10.0 A   |

| Characteristic   |                                |
|--|--------------------------------|
| Output signal I  | 0 V ... 5 V (0° ... 90°)       |
| Output signal II   | 5 V ... 0 V (0° ... 90°)       |
| Air mass flow<br>(p <sub>amb</sub> = 1,000 mbar, Δp 600 mbar, 23 °C) | [1] 6,500 kg/h<br>[2] 960 kg/h |

### Application Hint

The ETB can be connected directly to control units with ETC functionality.

An acceleration pedal sensor (e.g. RP 100 twin, B 261 209 591-02) is required.

Other bore diameters are available on request.

Please find further application hints in the offer drawing (<http://www.bosch-motorsport.com>).

### Connector

|                  |                            |
|------------------|----------------------------|
| Connector        | AKD                        |
| Mating connector | D 261 205 356-01           |
| Pin 1            | Poti 1                     |
| Pin 2            | [1] Poti +<br>[2] Poti -   |
| Pin 3            | [1] Motor +<br>[2] Motor - |
| Pin 4            | Poti 2                     |
| Pin 5            | [1] Motor -<br>[2] Motor + |
| Pin 6            | [1] Poti -<br>[2] Poti +   |

Various motorsport and automotive connectors are available on request.

Please specify the required wire length with your order.

### Part Number

|                          |                          |
|--------------------------|--------------------------|
| ETB 82 mm anti-clockwise | [1] <b>0 280 750 487</b> |
| ETB 46 mm clockwise      | [2] <b>0 280 750 531</b> |

