

# SPEED AND DIRECTION SENSOR KIT

Hall-effect speed and direction sensors with two Hall cells, one that detects speed and, in combination with the second, detects the direction of movement. The modular design allows customers to select a sensor in various standard configurations, such as immersion depth and output interface.

## Features

- Suitable for sensing ferromagnetic structures at speeds from near zero to 20 kHz
- Variable immersion depth (20 to 80 mm)
- Variable shaft diameter (12 to 20 mm)
- 2-wire, 3-wire, 4-wire interface
- Rotatable sensor head (variability of cable outlet)
- Flexible cable outlet (front or angled)
- Pre-assembled versions (cable with connector) available
- Open collector, PWM, or current interface
- IP67
- RoHS compliant

These sensors require the use of an external pull-up resistor; the value of which depends on the supply voltage.

## Typical applications

- Electric drives (stationary and mobile)
- Automation systems
- Conveyors
- Wind turbines

## SD74

- Modular speed and direction sensor in a plastic housing with pre-assembled connector**
- Versions available in the following lengths: 20 mm, 35 mm, 45 mm, and 60 mm
  - Connection via cable
  - Cable outlet angled 90°
  - Furnished with round flange mount

## SD84

- Modular speed and direction sensor in a plastic housing with pre-assembled connector**
- Versions available in the following lengths: 20 mm, 35 mm, 45 mm, and 60 mm
  - Connection via pre-assembled TYCO AMP Superseal connector (other connection systems available on request)
  - Cable outlet angled 90°
  - Furnished with round flange mount

## SDB4

- Modular speed and direction sensor in a plastic housing with pre-assembled connector and straight cable outlet**
- Versions available in the following lengths: 20 mm, 35 mm, 45 mm, and 60 mm
  - Connection via pre-assembled TYCO AMP Superseal connector (other connection systems available on request)
  - Cable outlet straight
  - Furnished with round flange mount



Technical data	
Series	<b>SD74 / SD84</b>
Dimensions L/W/H mm (inches)	20.00–60.00 x 13.00 dia. (0.787–2.362 x 0.512 dia.)
Operating voltage range (V DC)	4.5–24
Supply current (mA max.)	13
Operating temperature range (°C)	–40 to +140°C
Output current (mA max.)	25
Reverse battery protected	max. –18 V (supply line); max. –0.5 V (output signals)
Maximum input voltage	up to max. 28 V



Technical data	
Series	<b>SDB4</b>
Dimensions L/W/H mm (inches)	20.00–60.00 x 13.00 dia. (0.787–2.362 x 0.512 dia.)
Operating voltage range (V DC)	4.5–24
Supply current (mA max.)	13
Operating temperature range (°C)	–40 to +140°C
Output current (mA max.)	25
Reverse battery protected	max. –18 V (supply line); max. –0.5 V (output signals)
Maximum input voltage	up to max. 28 V