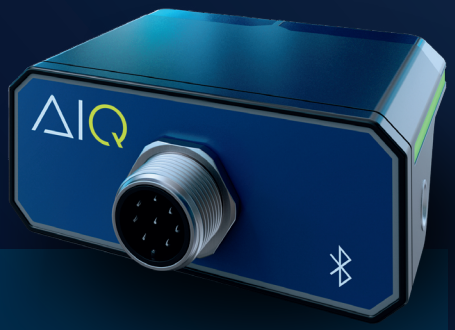
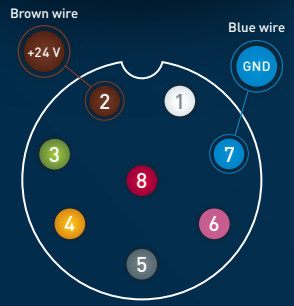
AIQ DETECT
DATA SHEET



PIN ASSIGNMENT (DEVICE SIDE)

1	Not connected	
2	+24 V DC	
3	Analog output (4 ... 20 mA)	Wear
4	Not connected	
5	Speedometer signal 24 V	Speed
6	Digital output 24 V 0.2 A	Status
7	GND	
8	Custom input	



GENERAL

- IP67 protection class
- CE certification
- Bluetooth (option for local mode)
- Operating voltage 24 V DC
- Dimensions 55.5 × 54 × 24 mm
- M5 mounting threads

SPEED MEASUREMENT

- Hall sensors detect every rotation of the coupling
- Connection to PLC
- Digital output / pulse signal
- High resolution

WEAR DETECTION

- Hall sensors detect the wear of the elastic elements
- Connection to PLC
- Analog output / 4 ... 20 mA signal
- High resolution
- Integrated intelligence

STATUS DETECTION

- Sensor detects the status of the coupling continuously
- Connection to PLC
- Digital output
- Integrated failure detection

FUNCTIONS

- Detects wear of elastomer elements
- Measures speed
- Maintenance forecast
- Failure detection
- Configurable output signals
- Firmware upgrades via AIQ app

USE CASES AND CONNECTIVITY

Visual

OPTION 1
Offline mode: visual status view LED light

Signal connection

OPTION 2
Offline mode: signal connection to customer control (PLC)

Bluetooth

OPTION 3
Local mode: Bluetooth connection to smartphone via AIQ app

Online

OPTION 4
Cloud connection via AIQ Core*

* Additional hardware required.