

1 CESU TURNI — Alarm and Relay Option

Preliminary integration information — September 2026. This note describes the current alarm variant for evaluation and system design. Confirm relay electrical ratings and defined output states with EUB before final wiring and commissioning. Common measurement capabilities are covered in **Cesu Turni — Product and Integration Guide**.

The alarm variant provides two independently configurable vibration alarm channels and two potential-free relay outputs. Alarms are evaluated locally, allowing the machine controller to reduce speed or stop the machine without a monitoring platform. Vibration measurements remain available over Bluetooth LE.

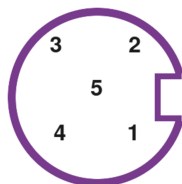
1.1 Connections and variant selection

The M12 wired interface carries the two relay outputs for connection to the machine controller. Bluetooth LE provides vibration measurements, while alarm settings are written over NFC using the Blippa Android app.

Parameter	Value
Product code	SP-VB-0020-A
Alarm channels	Two, with separate threshold and timing settings
Outputs	Two potential-free relay outputs
Connector	5-pin M12 A-coded male
Wireless vibration data	Bluetooth LE
Measurement and enclosure	As specified in the base guide

Select the monitoring variant when wired Modbus RTU integration is required. The RS-485 wiring and Modbus RTU commissioning instructions in the base guide do not apply to the alarm variant.

1.1.1 M12 A-coded male pinout



Pin	Signal
1	Power +
2	Relay common
3	Power -
4	Relay 1
5	Relay 2

1.2 Alarm behavior

The two alarm channels are configured independently, allowing separate responses to different vibration levels and durations. Each channel activates its corresponding relay output

when the configured alarm condition is met. The machine controller determines whether that signal produces a warning, slowdown or stop.

1.3 Configuration with Blippa

Alarm settings are configured over NFC using the Blippa Android app:

1. Operate the machine through representative conditions, including startup, normal running, speed changes and idle periods.
2. Open the sensor in Blippa and review its RMS vibration levels from the previous 60 minutes.
3. Choose the vibration threshold and timing for each alarm channel.
4. Press **Write** to store the settings on the sensor.

Review the settings after changes to sensor mounting, machine operation or measurement configuration.

1.4 Electrical integration and safety

Confirm the relay contact arrangement and ratings, and the defined contact states during power-up, power loss and sensor faults before connecting the outputs. The relay outputs provide signals to the machine controller, which determines the resulting action. They are not specified as safety-rated emergency-stop components.

1.5 Commissioning

1. Confirm the supplied variant and electrical specifications, then connect the relay outputs to the machine controller.
2. Configure both alarm channels with Blippa as described above.
3. Verify the complete response, including controller actions, simultaneous alarms, alarm clearing, restart behavior and loss of sensor power.
4. Record the final alarm settings and controller response.

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