NON-CONTACT CONVEYOR SPEED UNIT CTS 7000 DESU

Features

No contact with conveyor required.
Belt Slip and under-speed monitoring.
4-20 mA scaled output.
Dynamic mode for start-up monitoring of slip detection.
110Vac / 220Vac or 24 /12 Vdc input voltages available.
User friendly menu interface.
Fully configurable to suite any under speed requirement.
Low current consumption of only 650 mA.
Easy DIY installation manuals supplied with every unit purchased.

Operating modes

The software-driven menu facility on the unit allows the user to configure the unit to monitor the belt speed according to the user's parameters. The unit works in one of two modes:
1) Static mode.
2) Dynamic mode.

1) Static mode

In static mode, the device only monitors whether the belt is running above the user defined run-speed or not. If the belt speed falls below the run-speed, the potential-free contact will be de-energized.
A 4-20 mA signal given to the PLC at all times.

2) Dynamic mode

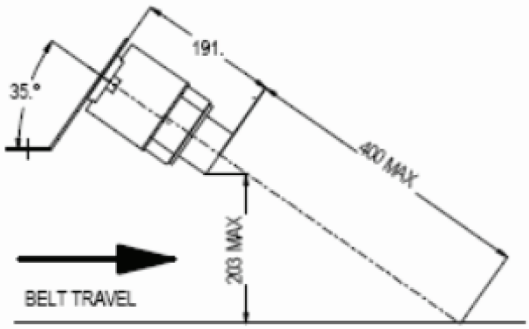
In dynamic mode, the device is used in conjunction with the conveyor's switch gear. An output from the main contactor is wired to the unit's drive input. When the drive starts up, the drive input to the unit is energized and the unit goes into moving mode. The display will read the actual speed and the PLC can be updated via the 4-20 mA output from the controller.

Analog output

The 4-20mA output increases in steps of 250uA per 0.1m/s increase in measured speed, which results in a 20mA output at a speed of 6.4m/s

Specific Installation Requirements

The Doppler head must be installed at an angle of 35 degrees to the surface of the conveyor belt, as shown in the diagram below. The Doppler head must be mounted not exceeding 203mm to the surface of the Belt.



ARCH ENVIRONMENTAL EQUIPMENT, INC.

ORDERING INFO:

UNIT NAME :	**CTS 7000 DESU**
ORDERING DISCRIPTION :	*CTS 7000 DESU*