

- **Monitors the pre-start alarm tones on the V-line from the controller**
- **Acknowledges a pre-start alarm via an S-line and Dupline/SILBUS**
- **Continuously monitors the pre-start alarm hardware and cabling**



## DESCRIPTION

The Tail End Unit type TEU2 is situated at the boot end of the conveyor. Its sole purpose is to monitor the pre-start alarm tones on the V line from the controller at the drive head.

If a valid pre-start alarm tone is received from the controller, the TEU2 will divide this tone frequency by eight and return the new, lower tone back to the controller via the S line. This process of modifying the pre-start tone and returning it to the controller allows the controller to verify that the pre-start alarm tone did not reach the boot end of the conveyor.

The TEU2 can also provide a pre-start alarm detected (confirmed) output that can be used to drive a Dupline field bus standard single channel digital transmitter or a safety transmitter. This feature can be used to monitor the pre-start alarm signal via an alternate return path.

If a pre-start alarm system end-of-line under-voltage is detected, then that output can also be used by the TEU2 to drive a Dupline field bus standard single channel digital transmitter or a safety transmitter. This feature can be used to continuously monitor the integrity of the pre-start alarm hardware and cabling, instead of just during a pre-start alarm.

## TYPICAL APPLICATIONS

The Tail End Unit TEU2 can only be used in a PSACS1 system for monitoring pre-start alarm tones and end-of-line voltage.

## CERTIFICATION

The Tail End Unit type TEU2 is IECEx certified for use in hazardous areas in accordance with the certificate IECEx TSA 07.0021X .

## INTRINSICALLY SAFE INFORMATION

SILBUS	Ii = 3 A	Ui = 12.6V
	Ci = 0uF	Li = 0uH
PSACS1 X1	Ii = 3 A	Ui = 12.6V
	Ci = 0uF	Li = 0uH
PSACS1 X2, X3, X4, X5	Ii = 3 A	Ui = 12.6V
	Ci = 0uF	Li = 0uH
PSACS1 TB1	Ii = 3 A	Ui = 12.6V
	Ci = 0uF	Li = 0uH



## CONNECTION & MOUNTING DIAGRAMS

## SPECIFICATIONS

### GENERAL SPECIFICATIONS

Gland size	To fit cable 16mm <sup>2</sup>
Size	180 (W) x 160 (H) x 115mm (D) 7 (W) x 6.3 (H) x 4.5inches (D)
Ingress Protection	IP55
Enclosure material	Stainless steel
Operating Temperature	0°C - 40°C (32°F - 104°F)
Storage Temperature	0°C - 40°C (32°F - 104°F)
Enclosure Type	ENCL08

### PIN ASSIGNMENT

#### X1 CONNECTION DETAILS

4 Pin	Colour	Description
1	BLUE	POWER +
2	RED	SIGNAL
3	BLACK	POWER -
4	YELLOW	VOICE

#### X2, X3 CONNECTION DETAILS

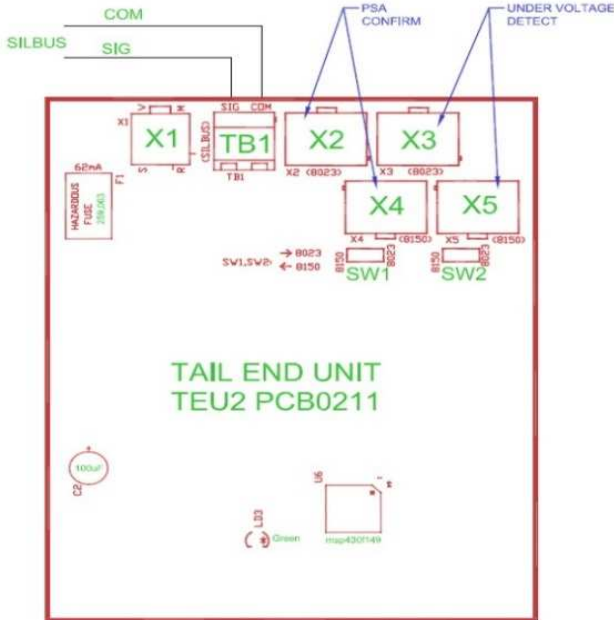
6 Pin	Colour	Description
6	BROWN	DUPLINE SIGNAL
5	BLACK	SCLK
2	YELLOW	CONTACT INPUT
3	BLUE	DUPLINE COMMON
1	PINK	NOT CONNECTED
4	WHITE	VREG

#### X4, X5 CONNECTION DETAILS

6 Pin	Colour	Description
6	BROWN	DUPLINE SIGNAL
5	GREEN	CONFIGURATION RX
2	YELLOW	CONFIGURATION TX
3	GREY	DUPLINE COMMON
1	PINK	CONTACT INPUT SOURCE
4	WHITE	CONTACT INPUT DRAIN

### ORDERING DETAILS

DESCRIPTION	ORDER CODE
TAIL END UNIT C/W LED DISPLAY	TEU301

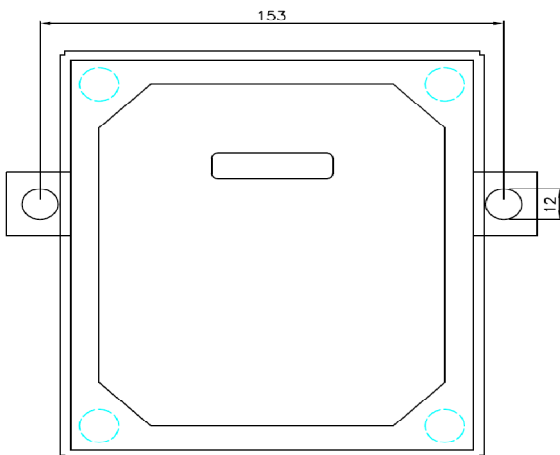


LED1 (Green) and LED2 (Yellow) are on the other side of the PCB (not shown here).

If LED1 (Green) is flashing once every 3 seconds, this indicates that the PCB is working normally.

LED1 turns on solidly when the unit detects a PSA request signal.

LED2 (Yellow) will turn on while the PBC detects a low line voltage (< 7.5V).



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