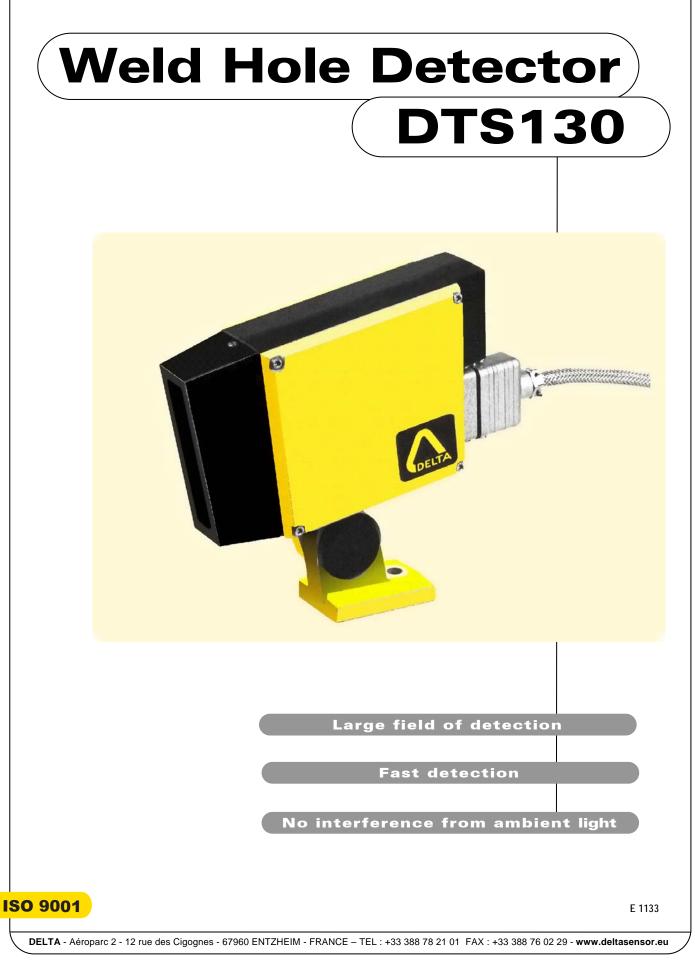
Scanning WELD HOLE DETECTION





Applications

Typical applications

The **DTS** is an infrared scanning detector. In association with the **EMI** infrared emitter, it is able to detect the weld hole made in order to locate the linking weld between two strips.

DTS130

The **DTS** sensor is sensitive to infrared emission and therefore is not disturbed by the reflection of sodium vapour or fluorescent lights on the strip.

General Description

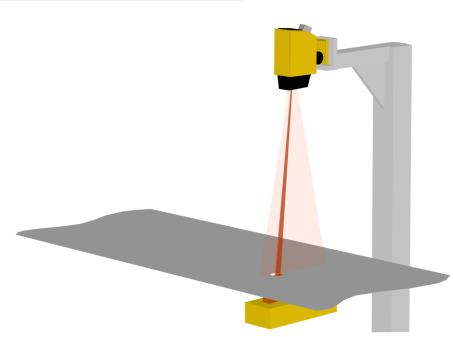
The **DTS** is a scanning detector. The field of detection is scanned by a multiple mirrors system. When it encounters infrared radiation, the active element of the sensor produces a signal that is processed by the built-in electronic unit and delivers a logic output. The output is kept for 500 ms after the end of the detection.

Features

The DTS weld hole detector, has been designed for heavy industry with :

- Adjustable mounting stand (2 axis). In case the sensor needs to be replaced, it can be easily dismounted from the stand, without disturbing the alignment.
- Protective hood
- Direct sighting through the sensor enabling precise orientation
- Control panel beneath a hinged cover at rear, including viewfinder, test button and indicator light.

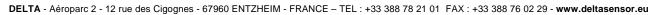
Installation

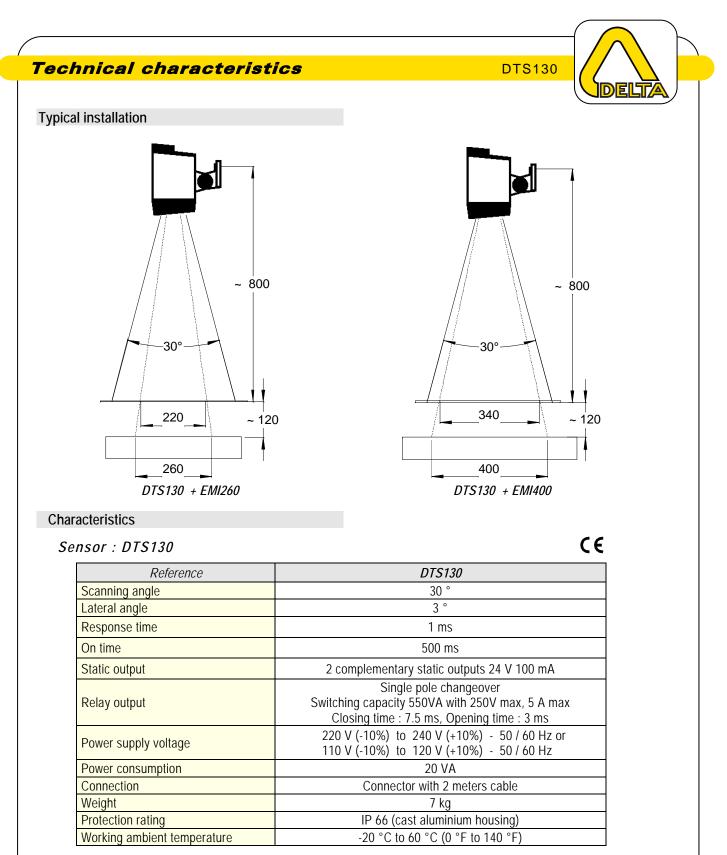


The **DTS** sensor detects the infrared emission emitted by an **EMI** through the weld hole. Sensor and emitter are fixed perpendicular to the line axis in order to take the lateral deviation of the strip into account.

The following conditions have to be held for a proper detection :

- The DTS field of view should completely cover the lateral position of the hole.
- The emission of the EMI infrared emitter should completely cover the lateral position of the hole.
- When there is no hole, the EMI emitter should be completely covered by the strip regardless of the lateral deviation of the strip. For applications where the emitter is not covered completely by strip, DELTA has developed the DTR.
- The time during which the DTS sensor can see the infrared emission should be more than 1 ms.





Infrared emitter : EMI

Reference	EMI260	EMI400
Emission length	260 mm	400 mm
Emission width	38 mm	
Operating voltage	220 V (-10%) to 240 V (+10%) - 50 / 60 Hz 110 V (-10%) to 120 V (+10%) - 50 / 60 Hz	
Power 230 V 115 V	600 W 600 W	800 W 280 W
Connection	2 meters cable with protective metallic braid	
Weight	4 kg	5 kg
Protection	IP 20	

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DTS130 CONNECTOR (FEMALE)

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SOLDERED SIDE

EMI260 - EMI400

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Reference for order

260

400

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DELTA

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BLACK 4

BLACK 5

GREEN

PURPLE

BROWN

YELLOW

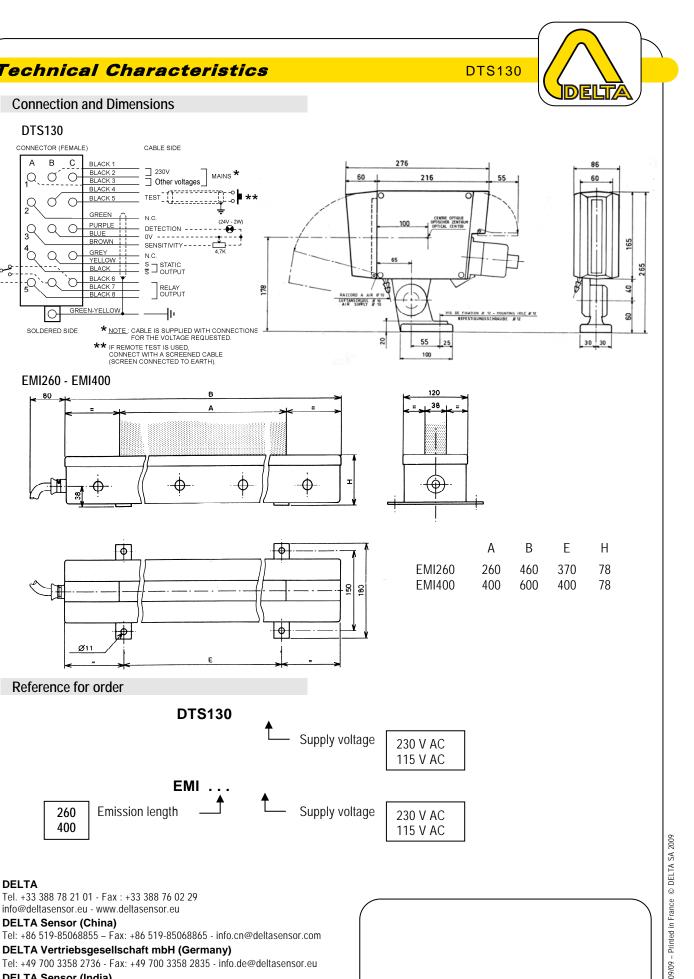
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