

# Special Versions

## Rota-Sonde TS5500

### Introduction

To optimize the performances in some specific applications, DELTA has developed new versions of Rota-Sonde TS5500. See below the description of the features that differs from the standard model. For complete description of TS5500 features, see datasheet TS5500\_E1550. We stay as well at your disposal to evaluate other customized models according to your requirements.



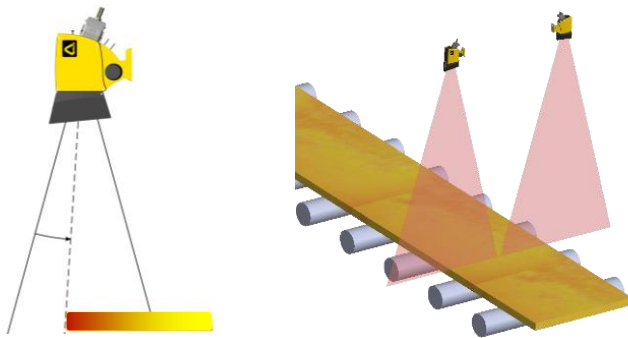
### Adjustable threshold level

On standard TS5500, the threshold level used to get the edge position is set as a percentage of the max. signal level. On TS5596-AT, designed for applications where the edge to be measured can be significantly colder than the rest of the product, the adjustment of the threshold is done through the sensitivity potentiometer on back panel.

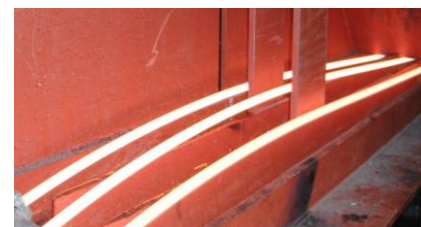
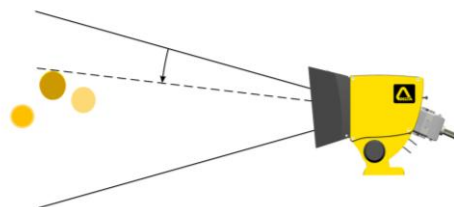
Reference ↗ TS5596-LL-AT ●●●●L= ●

### Typical applications:

- Hot plate/strip edge positioning: for detection of cold edges. The sensitivity is adjusted to make sure to detect the first infrared emission, even for cold edges.



- Slitting lines: for detection of the highest line. The sensitivity is adjusted to avoid missing the first product even if its temperature is colder.



### Special Scanning angle

DELTA proposes 2 models with fixed scanning angle as follow:

Reference ↗ TS5526-LP ●●●●L= ● with fixed scanning angle of 20°

Reference ↗ TS5546-LP ●●●●L= ● with fixed scanning angle of 40°

Other angles on request.

## Special analogue output

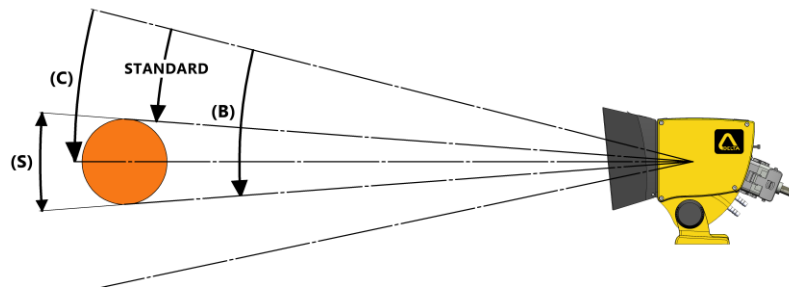
The standard TS5500 delivers an analogue output corresponding to the angle from the top of scanning up to the first edge of the product.

The models below deliver analogue output corresponding to the angle:

Reference ☞ TS5596-LL-B ●●●●L=● → from top of scanning up to the **last edge (B)**

Reference ☞ TS5596-LL-C ●●●●L=● → from top of scanning up to the **center position (C)** (between first & last edge)

Reference ☞ TS5596-LL-S ●●●●L=● → between first & last edge = **size (S)** of a product within the field of view



## Reverse slope of analogue output

To comply with versions U, V and W of the previous model TS2006, the equivalent model or setup of the TS5500 are:


- equivalent of **TS2006**: analogue output 10V or 20mA on top of scanning, with 0V or 4mA in product absence

Reference ☞ TS5596-LL ●●●●L=● with configuration setup on 


- equivalent of **TS2006U**: analogue output 10V or 20mA on top of scanning, with 10V or 20mA in product absence

Reference ☞ TS5596-LL ●●●●L=● with configuration setup on 

- equivalent of **TS2006V**: analogue output 0V or 4mA on top of scanning, with 0V or 4mA in product absence

Reference ☞ TS5596-LL- VW ●●●●L=● with configuration setup on 

- equivalent of **TS2006W**: analogue output 0V or 4mA on top of scanning, with 10V or 20mA in product absence

Reference ☞ TS5596-LL- VW ●●●●L=● with configuration setup on 

## Reference for order

In references above, replace the different ● by: model (see above possible choices), power supply (115 VAC, 230 VAC or 24 VDC) and cable length (2, 3, 5 or 8 m).

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