## W 18-3: Incorporated application Know-how, expanded functionality, high level of equipment availability




In Automation Technology, customers demand optical sensors, which can reliably solve complex applications, which are capable of operating at high processing speeds and which provide a high level of in-service availability under arduous operating conditions. To meet these demands the W 18-3 Series is recommended. The W 18-3 Series is the result of a vast amount of experience and many years of knowledge gathered from thousands of applications, from which the user can now benefit. Depending upon the task required, the most
appropriate sensor can be selected from the W 18-3 Series:

With precision background suppression, the WT 18-3 Series is ideal for demanding applications.

The scanning distance can be simply and quickly adjusted, either via conventional potentiometer or via double Teach buttons, with fine adjustment option. Scanners with red-light transmitters can be quickly and accurately aligned with the object to be sensed. Scanners with infrared light beams are particularly useful in arduous environmental conditions.

WL 18-3, using an auto-collimation optical principle, are designed to optically focus upon the object in a reliable manner and utilising a visually defined small red spot of light, simple and quick alignment is possible. WS/WE 18-3 - ideal for applications where greater system reserve is required. Using an autocollimation optical principle, designed to optically focus upon the object in a reliable manner and utilising a visually defined small red spot of light.
The main target industries for the W 18-3 Series are:

- Packaging industry,
- Food and Confectionery industry,
- Storage and Conveying,
- Wood Processing.


Precise background suppression; suitable for high demanding applications Scanning range adjustable via potentiometer
Insensitive to external light sources (HF lamps)
Operation reliability with equipment facing each other
Permissible ambient operating temperature $-40^{\circ} \mathrm{C} . . .+60^{\circ} \mathrm{C}$


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| Accessories |
| :--- |
| Connectors |
| Mounting systems |

Mounting systems

## Dimensional drawing



Adjustments possible All types


Connection types

| WT18-3P110 | WT18-3P410 |  |
| :--- | :--- | :--- |
| WT18-3N110-3P610 | WT18-3N410 |  |
|  |  |  |


$4 \times 0.25 \mathrm{~mm}^{2}$ 4-pin, M12 6-pin



## Adjustment via Poti

1. Position the object in the path of the beam.
2. By rotating the potentiometer to the right until the yellow LED illuminates continuously $=$ object is positively detected.
3. If necessary, fine adjustments to the scanning distance can be made to suit the conditions of the application: minimal rotation of the potentiometer to the right = scanning distance will be increased,
minimal rotation of the potentiometer to the left $=$ scanning distance will be decreased.


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