

DRT 25C: The one for everything. Reliable detection without readjustment when changing objects



The dynamic reference diffuse sensor with innovative CAT technology reliably detects any objects independent of shape or surface: flat, with openings, glossy or transparent.

Advantages for you at a glance

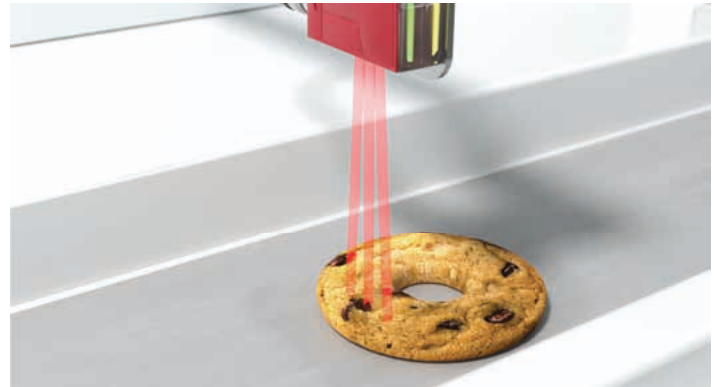
- Reliable detection of any object (flat, with openings, glossy, transparent) prevents downtime and increases machine throughput
- No readjustment necessary when changing format or object. Increases the production volume
- Easy and fast teaching of the sensor using the teach button, whereby the belt is used as a reference
- Reliable operation even with vibrations or contamination of the conveyor belt
- Additional functions such as warning output or disabling of the teach button via IO-Link

Operating range (distance to belt)	50 to 200 mm
Switching frequency	750 Hz
Minimum object size	5 mm (at 2 m/s)
Setting	Teach button, remote, IO-Link
IO-Link operating modes	Dual channel or SIO
Housing dimensions	15 x 42.7 x 30 mm
Certificates	IP 67, IP 69K, ECOLAB

Detects objects of any shape

To control the buffer section and the weld bar, the front edges of the products on the conveyor belt must be reliably detected. The sensor must also reliably detect products with challenging dimensions from very flat to very tall, in order to prevent machine stoppages due to incorrect detection. The sensor must be easy to set up for all products.

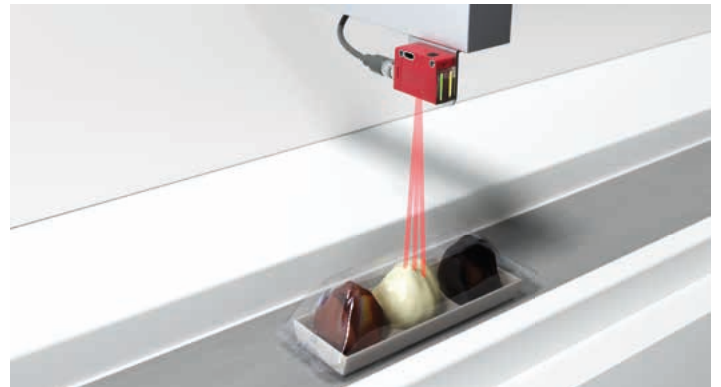
The DRT 25C dynamic reference diffuse sensor reliably detects anything, from small and flat to tall and spherical products, even if the shapes and contours are irregular. This means that machines can be fitted with a single sensor regardless of the application. The single button teach function also makes the DRT 25C easy to set up.



Reliably detects every type of packaging

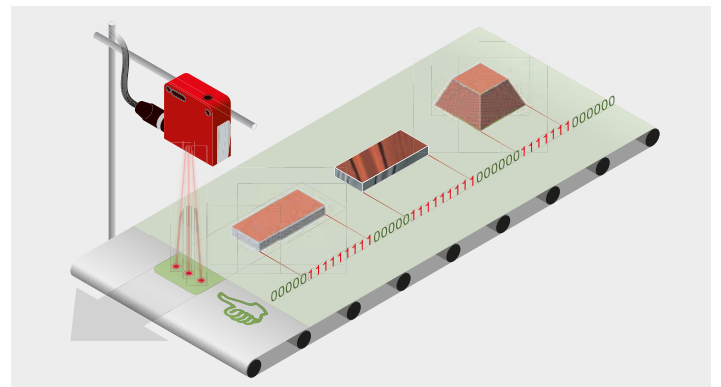
For trouble-free control of the buffer section, packaging made of various materials and with a wide variety of surfaces must be reliably detected from the front edge. Changing products or packaging films should not require any additional setup and alignment work on the sensor.

The unique technology of the DRT 25C uses the conveyor belt surface as the point of reference. The detection is independent of the surface characteristics of the materials used, such as the color, gloss, and transparency. This means no setup work on the sensor is required when changing products.



One-of-a-kind CAT technology

The DRT 25C works with the conveyor belt surface as a dynamic reference for the detection of objects. With this method, the surface characteristics of the conveyor belt are taught in via the teach button. The sensor will then detect all objects that do not correspond to the conveyor belt surface. Even contamination on the conveyor belt can be considered with the Contrast Adaptive Teach technology.



Quickly set up – and once is all it takes

When performing the initial setup, the conveyor belt surface is taught in as a point of reference with the teach button. After a product changeover, it is not necessary to adjust this setting, as the point of reference remains the same. In addition, the mounting position and the alignment of the sensor itself can be continuously used for the widest variety of objects. This means that no setup effort is required for the sensor when changing products.

