



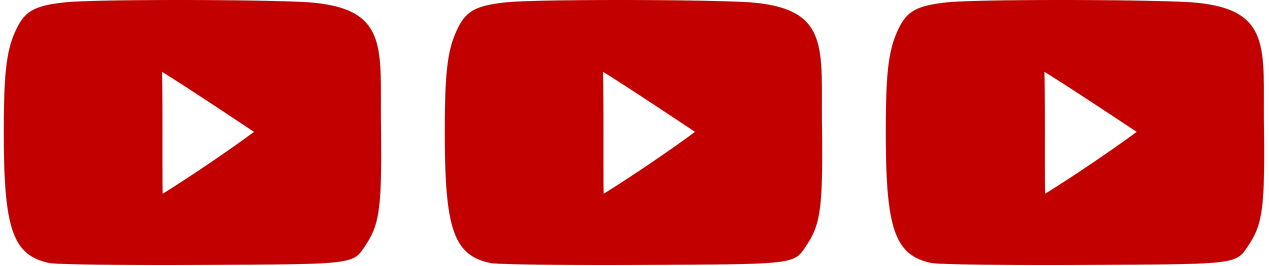
3D Belt Pick

Conveyor belt picking made simple in all dimensions

SICK
Sensor Intelligence.

Advantages

Working with 3D vision in your robot guidance projects increase both the reliability of your picking process and the quality of the handled products.



The 3D Belt Pick SensorApp is specialized for locating products on a conveyor belt.

Quick change-over to new product batch – works without teach-in, height based detection allows shifting product design.

Easy to integrate with selectable interfaces for ABB PickMaster™, Stäubli and URcap.



Collisions and product damage are prevented – 3D technology enables reliable detection and gentle handling based on the true shape of each product.



Technical data overview

Task	3D object localization on production lines
Technology	3D triangulation
Language	English
Supported products	TriSpectorP1000 SIM1012 SIM2x00 SICK AppEngine
Minimum screen resolution	1,280 px x 1,024 px
Supported browsers	Google Chrome

Product description

The 3D Belt Pick SensorApp from SICK is specialized for locating and measuring products on a conveyor belt. Working with 3D vision in your robot guidance projects both increases the reliability of your picking process and preserves the quality of the handled products. For each detected product, the SensorApp reports, among other metrics, the location, height and orientation of the product to the robot picking system. The 3D Belt Pick SensorApp features a plug-in concept which makes it easy to extend the SensorApp with new robot communication protocols and customized image processing.

At a glance

- Application-centric user interface
- Provides 3D coordinates and measurements of products on belt
- Easy integration with several robot brands
- Running stand-alone on TriSpectorP1000 and on Ruler3000 bundle
- Simple hand-eye alignment
- Reliable height-based detection

Your benefits

- Fast and easy commissioning
- Collisions and product damage are prevented – 3D technology enables reliable detection and gentle handling based on the true shape of each product
- Easy to integrate with ABB PickMaster™, Stäubli and Universal Robots or with generic interface for other brands
- Scalable solution for different widths of belts, speed and resolution
- Quick change-over to new product batch – works without teach-in, height-based detection enables shifting product design
- Handles varying and poor contrast scenarios, e.g., when belt and product have the same color

Fields of application

- Robot conveyor belt picking in primary and secondary packaging
- 3D localization of objects on production and packaging line, e.g.: food & beverage, pharma, consumer goods and consumer care products on conveyor belts

Ordering information

Other models and accessories → www.sick.com/3D_Belt_Pick

Description	Type	Part no.
-	3D Belt Pick Ruler3000 Bundle	1128736
	V3T12P-MR32A7S50	1106177
	V3T12P-MR32A8S50	1106180
	V3T13P-MR62A7S50	1106181
	V3T13P-MR62A8S50	1106182
Software package with the 3D Belt Pick SensorApp. The 3D Belt Pick from SICK is a special purpose SensorApp for localizing and measuring objects on conveyor belts. Using 3D machine vision in robot guidance applications increases the reliability of the picking processes and maintains the quality of the products being handled. The SensorApp sends data on the position, height, and alignment of products to the robot controller. The 3D Belt Pick SensorApp offers a plug-in concept that makes it easier to extend the SensorApp by new robot communication protocols and customer-specific image processing.	3D Belt Pick SensorApp	On request
The 3D Belt Pick license allows the 3D Belt Pick SensorApp to be used in production when installed on supported SICK products.	3D Belt Pick Licence	1126663

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com