



DeltaPac

Bridging the Gap

MULTITASK PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	42 mm x 42 mm x 45 mm
Sensing range max.	30 mm ... 40 mm ¹⁾
Light source	PinPoint LED
Type of light	Visible red light
Enclosure rating	IP67
Housing material	Plastic Novodur
Adjustment	None IO-Link

¹⁾ The sensing range max. refers to the object leading edge. The individual object leading edges must be within the operating range.

Product description

For higher efficiency and quality in the packaging industry, the DeltaPac MultiTask photoelectric sensor utilizes Delta-S technology[®], which combines four PinPoint emitters and two receivers with SIRIC[®] and distance measurement technology. Thanks to the four operating modes available to select with just a click, the sensor is able to detect object contours with radii of up to 20 mm – from any direction. From rectangular, dark-colored folding boxes to white, glossy, prism-shaped packaging, objects are detected reliably with a sensing range of 30 to 40 mm. This means that the packaging does not have to be manually separated. Collisions are avoided. For better space and time utilization. The DeltaPac provides information about how many packages are present in the process for full production monitoring. The sensor is also available as a pre-configured device for fast and error-free commissioning.

At a glance

- Delta-S technology[®], four PinPoint 2.0 LEDs and two energy scales, combined with SIRIC[®] and distance measurement technology
- Able to detect object contours with radii of up to 20 mm in any direction
- For belt speeds up to 3.0 m/s or production rates of up to 200,000 packages per hour
- Preconfigured sensors or custom setting of four operating modes via IO-Link
- Compact housing (42 mm x 42 mm x 45 mm) with an IP 67 enclosure rating

Your benefits

- Selective process optimization: information about the number of packages in the process enables better production monitoring
- Better space utilization: no mechanical devices are required to isolate packages, reducing the width of packaging systems and saving space
- Better time management: packages run in push-push mode, which prevents collisions and toppling, and reduces machine downtime
- Stable production for reduced energy consumption
- Fast and intuitive commissioning due to pre-configuration
- Maximum flexibility in the types of objects used thanks to the option of custom-setting four operating modes via IO-Link
- Space-saving mounting due to compact housing

Fields of application

- Jam monitor: counts jammed packages to control the system
- Triggering application: detects packages to trigger bar code readers, inkjet printers and cameras
- Packaging application: counts packages prior to the separator to ensure the quantity is correct

Ordering information

Other models and accessories → www.sick.com/DeltaPac

- **Sensor principle:** Photoelectric proximity sensor
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
–	PNP	Cable	Male connector M12, 4-pin	WTD20EC-V2499	1073668
30 mm ... 35 mm	NPN	None	Cable, 4-wire, 2 m ¹⁾	WTD20E-W1114	1064779
	PNP	None	Male connector M12, 4-pin	WTD20E-V2414	1064778
30 mm ... 40 mm	PNP	Cable	Cable with M12 male connector, 4-pin, 270 mm	WTD20EC-V3419S01	1069260
			Male connector M12, 4-pin	WTD20EC-V2419	1064782
30 mm ... 40 mm, 30 +/- 2 mm	NPN	None	Cable, 4-wire, 2 m ¹⁾	WTD20E-W1145	1065773
	PNP	Cable	Male connector M12, 4-pin	WTD20EC-V2449	1064783
				WTD20EC-V2449P01	1091212
				WTD20EC-V2449S02	1073586
		None	Male connector M12, 4-pin	WTD20E-V2445	1065772

¹⁾ Do not bend below 0 °C.

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