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Distance sensor with integrated Wi-Fi interface

Dx50-2: The new era in distance measurement

Waldkirch/Nuremberg, November 2014 – The new DT50-2 Pro distance sensor from SICK provides the perfect combination of measurement performance and size. Based on the patented HDDM™ time-of-flight technology it provides precise and reliable measurement, with ranges of up to 10 m on black targets and up to 30 m on white targets. Nothing can stand in the way of the Dx50-2 product family – not even mechanical stresses, ambient light, or extreme temperatures.

SICK is once again setting the standard in the field of distance sensors with the new generation of Dx50-2 sensors, which provide the perfect combination of measurement performance and size. Based on the patented and improved HDDM™ time-of-flight technology, the new product family supports precise and reliable measuring, with ranges of up to 10 m on black targets and up to 30 m on white targets. The Dx50-2 sensors feature either an LCD or an integrated Wi-Fi interface. Both versions have been designed with focus on a simplified and intuitive user experience, saving time during installation, commissioning and maintenance. The high output rate of the sensors delivers up to 3,000 distance values per second for maximum throughput and process quality. The Dx50-2 sensors have a rugged housing and provide reliable operation despite extreme temperatures and harsh ambient conditions. Since the settings for speed, sensing range, and repeatability can be adjusted to meet current requirements, the Dx50-2 sensors can be customized to suit each and every possible application.

Dx50-2: New features imply new possibilities

- A wide measuring range and a compact housing increase the number of application possibilities
- Very high throughput thanks to a high measuring frequency

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- Precise and reliable measurement regardless of object color improves uptime and process quality
- Withstands harsh ambient conditions thanks to ruggedness, a wide operating temperature, and ambient light immunity
- Integrated shape comparison for straightforward checking and sorting of objects
- Fast and easy commissioning via display with intuitive user interface, easy teach option, Wi-Fi, multifunctional input, or IO-Link saves time
- Full process control with IO-Link from commissioning to maintenance
- Three switching modes provide a simple solution for demanding applications

The DT50-2 Pro, in the LCD version as well as the Wi-Fi version, delivers top performance in most demanding applications.

Automotive industry

The DT50-2 Pro ensures precise, reliable measurement or detection at even greater distances. Even in the case of small or barely detectable objects in car body or vehicle construction applications.

Metal and steel industry

Whether it's used on steel coils, rollers, or hot plates, the DT50-2 Pro lets nothing burn and delivers reliable measurement data – even on glossy or red-hot objects.

Wood industry

Also the wood industry offers an extensive range of applications. Regardless of color and quality, wood can be detected or measured precisely, reliably, and, most importantly of all, at high speed from a great distance.

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Transport and logistics

Trouble-free productivity when running cranes or various other logistics-related processes – for example, for container height and distance measurements or for collision prevention of cranes.