

A press release by SensoPart Industriesensorik GmbH, Gottenheim near Freiburg/Breisgau, Germany

Blue light photoelectric switch opens up many new applications



[F10-Bluelight_Blaulicht-Sensor.jpg]

When detecting dark or transparent objects, SensoPart's subminiature photoelectric switch with blue LED emitter, F 10 Bluelight, offers more reliable detection than standard red light sensors. The blue light sensor has proved to be an economic alternative to conventional red light photoelectric switches, for example in the solar industry (wafers), packaging industry, in laboratory automation or in special purpose machine construction.

The F 10 Bluelight subminiature sensor with background suppression was specially developed for detection of solar wafers. The intensive blue light from the LED emitter reliably detects the presence of light-absorbing solar cells. Thanks to its compact design (21 x 14 x 8 mm³) and a fixed scanning range of 30 mm, the F 10 Bluelight takes up little space and can be installed in close proximity to the process.

The blue light sensor also opens up other areas of application: in contrast to standard red light sensors, the F 10 Bluelight demonstrates above average process stability when detecting light-absorbing objects, such as black plastic or carbon parts, or when positioned at a difficult, flat angle. This is due to the

greater intensity of the short wave blue light and its depth of penetration into the surface of the dark target object. The photoelectric proximity switch also detects transparent objects, e.g. transparent Petri dishes, as reliably as a retro-reflective light barrier - but without the additional installation of a reflector. The F 10 Bluelight is installed with a dovetail clamp, enabling fine adjustment of the sensor after installation.

The compact blue light sensor is an economic solution to applications which were previously either impossible with red light sensors or only at additional cost and effort (e.g. reflector), such as presence detection of black, high gloss or transparent objects at a wide tilt angle. The F 10 Bluelight rounds off the existing F 10 subminiature range from SensoPart and is now immediately available.

More information is available on www.sensopart.com

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SensoPart Industriesensorik GmbH

The sensor manufacturer SensoPart, based in Wieden near Todtnau, and also in Gottenheim near Freiburg since 2001, develops, produces and sells sensors for industrial applications. The main focus is on optoelectronic sensors, particularly laser sensors, which are used in so many industrial applications, and highperformance vision sensors for the detection of objects, colours or data matrix codes. The past years have been marked by a strong growth in turnover and the regular launch of new, innovative products. SensoPart has received several distinctions for its work, for example the Dr. Rudolf-Eberle Prize, 1st place in the Baden-Württemberg Prize for the Promotion of Young Companies, and has been awarded the German Sensor Application Prize several times. Further information can be found online under: <http://www.sensopart.com>.