

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

Small enough to fit on every gripper: SensoPart presents new subminiature LED sensors



Pressefoto_F10_Roboter.jpg

Gottenheim/Nuremberg, November 2013 – SensoPart has expanded its subminiature sensor series in time for the sps ipc drives 2013 exhibition in Nuremberg. The range now offers LED sensors, in addition to laser sensors, including a proximity switch with adjustable background suppression and a blue light version for strongly light-absorbing objects.

The LED proximity switch FT 10-RH is a special highlight amongst the new sensors: it offers *adjustable* background suppression which means it can be adjusted to different objects and applications without modifications. Its maximum scanning range of 70 mm is unique for this sensor size. Fixed focus proximity switches – also equipped with background suppression – are also available with scanning ranges of 15mm, 30 mm or 50 mm.

Background suppression in F 10 sensors from SensoPart is based on distance measurement using an ASIC array. This functional principle enables highly-accurate spatial resolution so that objects can be reliably distinguished in front of light backgrounds or reflective machine parts – whatever the colour and surface finish.

Measuring just 21.1 × 14.6 × 8 mm³ and weighing only 3 g, the tiny proximity switches can be mounted directly on a robotic gripper and are therefore ideal for pick-and-place applications. They are perfect for space-saving installation in handling systems, assembly robotics and highly-integrated machines or as a low-cost alternative to fibre-optic systems.

One model, numerous applications

In addition to the aforementioned proximity switch with red transmitter LED, SensoPart also offers a blue light version (fixed focus 30 mm). The F 10 blue light has been specially developed for detection of strongly light-absorbing objects such as solar cells. Another new member of the F 10 series is the LED retro-reflective light barrier FR 10-R with a high operating range (up to 1.6 m) and teach-in function.

Thanks to these new additions, users of SensoPart's subminiature F 10 series can now cover numerous applications with just one model. Not only are different functional principles available (proximity switches with adjustable background suppression, fixed focus proximity switches with background suppression, through-beams and retro-reflective light barriers), but there is also a choice of several light sources (laser, red light LED, blue light LED).

© SensoPart Industriesensorik GmbH 2013, Gottenheim
Publication free if source is quoted

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 high-performance 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>.