

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

## **The time is right for a new format**

### **Edale opts for the miniature contrast sensor FT 25-RGB from SensoPart**

Speed and accurate differentiation of even the lowest contrasts are essential for detection of printing marks on continuous material. Edale, the leading UK manufacturer of flexo printing presses, amongst other machinery, found that SensoPart's miniature contrast sensor fulfilled both requirements when it came to replacing the standard sensors it previously used, saving not just space but also halving the costs.

"Miniature contrast sensors are tailored precisely to our needs. Their small size means they can be fitted discreetly into our machine and we are extremely satisfied with their performance thus far," as Antony Neaves, Edale's Senior Buyer, is entirely satisfied with the choice of the SensoPart product.

The Flexo printing press FL-3 from the UK manufacturer Edale, is equipped with 15 contrast sensors. These sensors control the printing and die cutting processes on continuous paper or foil by identifying crop and registration marks on the material. The standard size contrast sensor had to be replaced by a more compact version.

With the miniature contrast sensor FT 25-RGB, SensoPart fulfilled all requirements: measuring just 34 x 20 x 12 mm<sup>3</sup>, it is approximately only a fifth of the size of the previous sensor and its performance data is superior. Thanks to multi-colour analysis – the sensor automatically selects the optimum emitter colour (red, green or blue) for the given contrast – low or difficult contrasts, such as yellow printing marks on a white background, can be reliably detected. The requirement for a very fast print mark detection, due to the high web speed of up to 200 m/min is achieved by the switching frequency of 25 kHz. It also has a short response time of 20 µs and a minimum jitter of 10 µs which guarantees accurate positioning and precise die cutting of the continuous material.

The teach concept of the contrast sensor FT 25-RGB has been customised, so that Edale could maintain the same operating concept of the previous sensor. The cost of purchase combined with savings achieved through the flexible mounting concept reduced costs by approx. 50 per cent – a welcome spin-off from the change by Edale.

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Free for publication when references are included.

## Further information

### About Edale

Edale are the UK based manufacturer of web fed printing presses and converting machinery specialising in four dedicated market sectors; Flexographic Printing, Digital Printing, Commercial Security and Speciality Converting Solutions.

Edale design and manufacture all machines at their purpose built Head Office in Hampshire, creating value for clients by combining technical expertise and engineering experience with an in-depth understanding of customers' products and processes. By providing innovative and profitable solutions for customers needs, Edale reduce machine downtime, material wastage and increase machine profitability.

With Edale you can be sure of high quality parts and workmanship alongside innovative, bespoke and upgradeable solutions.

You can find out more here: [www.edale.com](http://www.edale.com)

## FL-3 in details



[Abb\_1\_Edale.jpg;Bild:Edale]

The FL-3 is a high productivity, cost efficient label and flexible packaging press. Edale's priority when designing the FL-3 was to create a press tailored specifically to the label market; with the scope to venture into flexible packaging applications should customer demands change. With this press, Edale have not over complicated the design, the FL-3 does what it is built to do, and does it well, ensuring a rapid return on investment.

### About Sensopart Industriesensorik GmbH

The German sensor manufacturer Sensopart develops, produces and sells sensors for industrial applications and has a subsidiary in Burton on Trent for the UK market. 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 and has been awarded the German Sensor Application Prize several times. Further information can be found online under: <http://www.sensopart.com>.

## FT 25-W/-RGB in details



[Freisteller\_Sensor\_FT25W\_SensoPart.tig;Bild: SensoPart]

- Space-saving miniature design (34 x 20 x 12 mm<sup>3</sup>)
- Oblong-shaped light spot (1 x 4 mm<sup>2</sup>) with sharp contour and high field of depth ( $\pm 3$  mm) for easy sensor alignment and reliable detection of even the smallest printing marks
- Automatic selection of optimum emitter colour (RGB diode)
- High switching frequency (up to 25 kHz)
- High positioning accuracy due to short response time (20  $\mu$ s) and minimum jitter (10  $\mu$ s)
- User-friendly “teach-in” (either dynamic, static or external via control cable)
- Process quality communicated by “speaking” light spot
- Multi-purpose mounting accessories: mounting adapter, mounting component, dovetail clamp