



Laser copy counter

SCATEC-2



Baumer electric is proud to introduce the **SCATEC-2** Laser Copy Counter, a member of the **SCATEC** family of non-contact laser-based sensors, designed to count newspapers, magazines and other printed matter in a lap or shingle stream.

The **SCATEC-2** detects sheets down to a thickness of 0.2 mm at up to 600,000 pieces per hour. The sensor is adjustable via a simple dip-switch.

Your benefit!

- **High sensitivity**
Paper thickness down to 0.2 mm can be easily detected.
- **High counting rate**
Up to 600,000 copies per hour are possible.
- **Settings**
The sensor can be optimized via dip-switch.
- **Easy to mount**
The sensor is mounted parallel to the conveyor at a 40 mm distance.
- **Fast error diagnostics**
If you ever suspect an error, the **ScaDiag** diagnostic software can help pinpoint the source, saving significant time, effort and money usually wasted in traditional troubleshooting.

Application hints

Mount the sensor parallel to the conveyor at a distance of 40 mm and plug it in. No further alignment and adjustment needed!

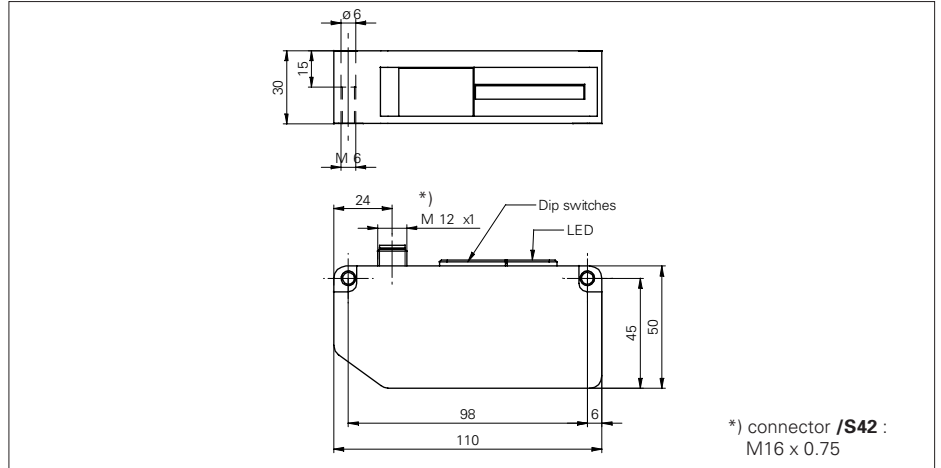
A diagram on the sensor label makes it easy to mount the sensor in the correct orientation towards the lap stream. Only edges facing the laser beam are counted, edges facing away from the laser beam are not detected.

Sensitivity, multiple-pulse suppression mode, and output pulse length are set via dip-switches.

Additionally, a flexible diagnostic and parameter-setting software called **ScaDiag** is available. Using this software, the sensor can be controlled via serial interface. Furthermore **ScaDiag** allows remote access to the counter value (totalizer), sensor information and error codes. A graphic diagram of the signal characteristics helps when analyzing critical applications.

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FLDK 110G1003/S14 / FLDK 110G1003/S42
 FLDK 110C1003/S42



technical data	
range	0...60 mm below the sensor
sensitivity	single sheet detection down to 0.2 mm* are recognized in the range of 37...43 mm below the sensor (* test object: neatly cut, matte white paper)
color insensitivity	multi colored objects like magazines and other printed objects with a color range from black to shiny white are recognized, even if the bright / dark transitions are near to the edge
counting rate	max. 600,000 copies/h
object speed	0...2 m/s for > 0.3 mm edges 0...1 m/s for > 0.2 mm edges
distance between objects	min. 1 mm at speed 0.2 m/s min. 5 mm at speed 1 m/s
stream condition	folded edge leading, in certain cases also cut edge leading
multiple pulse suppression	on / off switchable
light source	laserdiode 670 nm, visible red, mean output power < 0.3 mW, laser class 2
voltage supply range +Vs	10 - 30 VDC
max. supply current	150 mA
output	push-pull (FLDK 110G1003/S14 / FLDK 110G1003/S42) opto isolated, open collector output (FLDK 110C1003/S42)
output pulse duration	5, 10, 15 and 20 ms selectable
connector	M12 x 1 or DIN 45322
housing dimensions	110x50x30 mm
housing material	plastic (PBTP)
weight	approx. 130 g
temperature range	0...+50 °C (non condensing)
protection class	IP 54
recommended mounting	parallel, to the conveyer belts and 40 mm above them
	laser caution