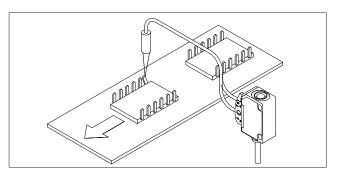


FL 20 R

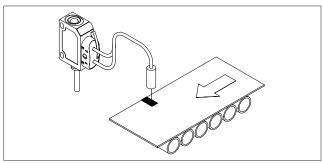
Detection of IC-pins



Because of the small light spot diameter, even very small objects can be reliably detected, as e.g. IC-pins.

FL 20 R

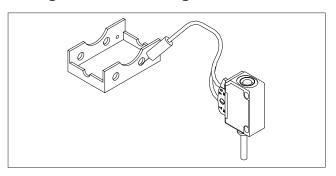
Detection of pressure marks



Apart from the optical requirements, the detection of pressure marks also demands a high clock frequency.

FL 20 R

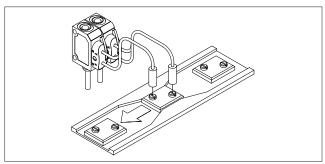
Testing if thread is existing



Because of the restricted space, the use of a fibre optic is obvious.

FL 20 R

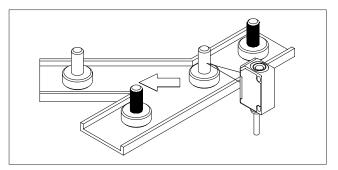
Detection of missing screws



In restricted spaces, very small bending radius can be attained thanks to the small diameter of the optical fibre.

FT 20 R

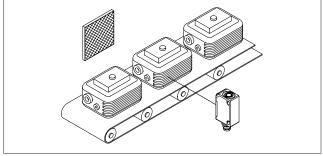
Sorting out of non-coated parts



With an energetic optical sensor, differences in light intensity can be detected in a reliable way.

FR 20 R

Fitting control

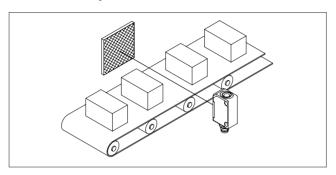


Before continuing production, the presence of the added component has to be checked.



FR 20 RD

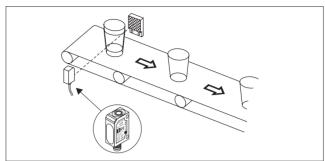
Detection of parcels



With a retro-reflective sensor, parcels on a conveyor belt are detected in a reliable way even at high speeds.

FR 20 RG

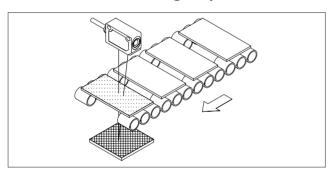
Detection of double drawn-in plastic cups



The special sensor for glass detection recognises differences in the light transmission capacity.

FR 20 RG

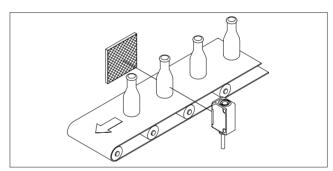
Detection of non-tinted glass panes



Panes that are mistinted or not tinted at all can be detected with a special retro-reflective sensor for glass detection in a reliable way.

FR 20 RG

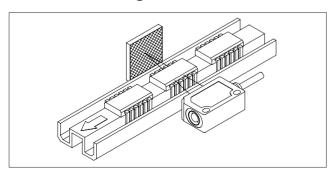
Bottle control



With the specially developped retro-reflective sensor, the reliable recognition of transparent objects is a success.

FR 20 RL

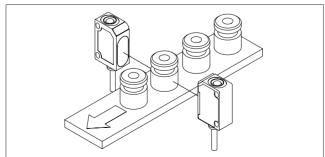
Position monitoring



Particularly for the production of electronic components, the precise switching point of a laser sensor is imperative.

FS/FE 20 R

Detection of work pieces in rough conditions

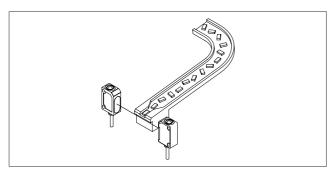


Thanks to their high reliability, through-beam sensors can guarentee a detection even under unfavourable circumstances.



FS/FE 20 R

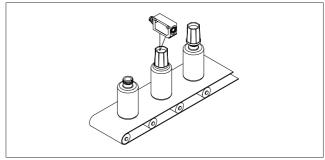
Counting of conveyed objects



The through-beam sensor detects the parts conveyed by the vibroconveyor.

FT 20 RA

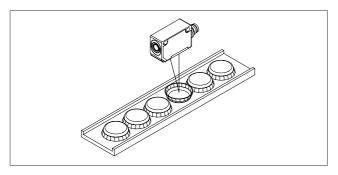
Lid control



Lids that rise above or stay below the switching window, are sorted out.

FT 20 RA

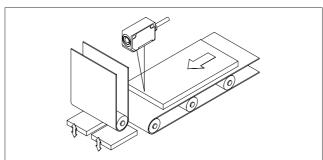
Position control of lids



Due to the adjustable switching window, lids that lie the wrong way around or are bulged too lightly or strongly can be reliably sorted out.

FT 20 RA

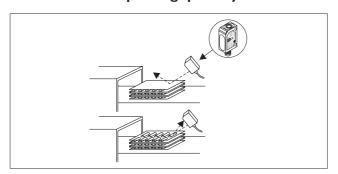
Adjustment of the grind thickness



The thickness of the board put out by the analogue output serves for the adjustment of the grinding machine in real time.

FT 20 R

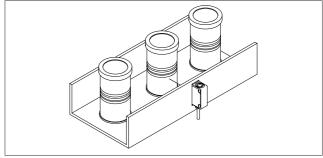
Detection of the packing quantity



The number of packed units can be controlled with an energetic switch.

FT 20 R

Detection of packings

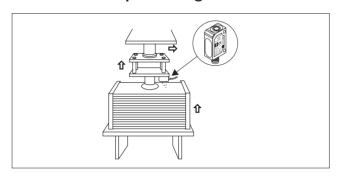


Due to its small size, the proximity switch can be installed directly on the conveyor belt.



FT 20 RH

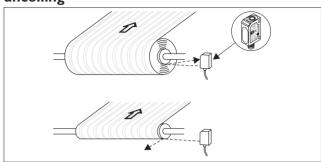
Confirmation of plate lifting



This plate conveyor is equiped with a proximity switch with background suppression that reports the lifting of a plate.

FT 20 RH

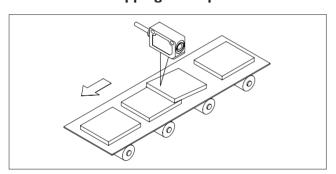
Checking of the wallpaper quantity during uncoiling



In time before the bolt of wallpaper is uncoiled, the proximity switch puts out an acknowledgement message.

FT 20 RH

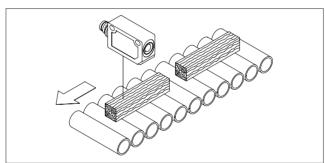
Control of overlapping wood plates



Before varnishing, overlapping plates can be detected by means of a proximity switch with background suppression.

FT 20 RH

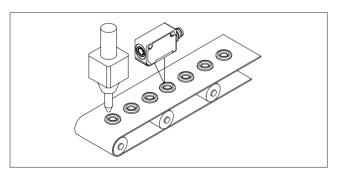
Detection of tree-trunks



Even rough, irregular structures are reliably detected with the proximity switch.

FT 20 RH

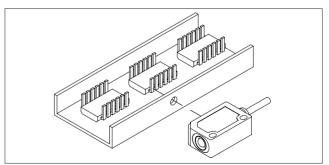
Detection of cookies



With a proximity switch with background suppression, the even application of dough is controlled.

FT 20 RLH

Checking of pins

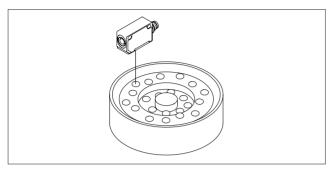


The fine light beam of the laser sensor allows the precise recognition of such small objects.



FT 20 RLH

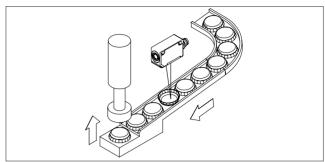
Presence control in a feeding machine



By means of the presence control with a proximity switch, the supply of new work pieces is controlled.

FT 20 RLH

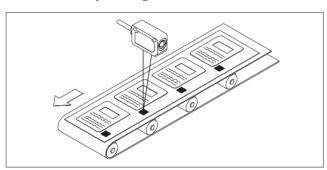
Lid control



Lids that lie the wrong way around are detected by means of the background suppression.

FT 20 RL

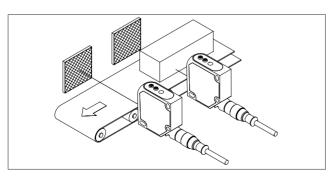
Detection of printing marks



The difference in contrast of the printed marks is detected here.

FR 50 R

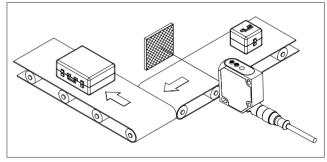
Position test



Two retro-reflective sensors check the alignment of the parcel. When both sensors switch, the parcel lies lengthways on the conveyor belt.

FR 50 R

Luggage distribution



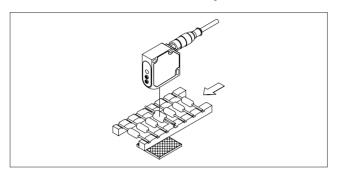
The retro-reflective sensor detects the arrival of a piece of luggage at the end of the conveyor belt.

| 0 www.sensopart.com



FR 50 RL

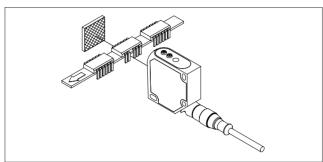
Detection of double drawn-in parts



The laser sensor detects the component drawn in double because of the longer interruption of the light beam.

FR 50 RL

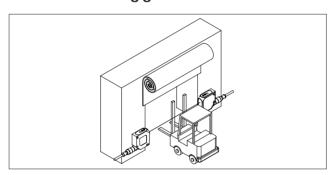
Counting of plug pins



A precise laser retro-reflective sensor recognizes even pins with a very small diameter.

FS/FE 50 I

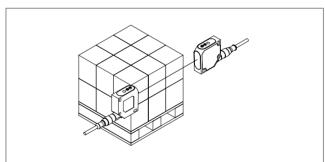
Control of a sliding gate



The sensing distance of a through-beam sensor facilitates its use even with very broad gates.

FS/FE 50 I

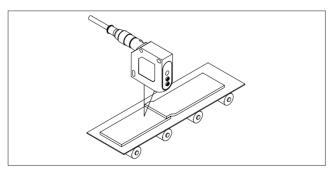
Pallet position



A shifting of the pallet causes the interruption of the light

FT 50 IH

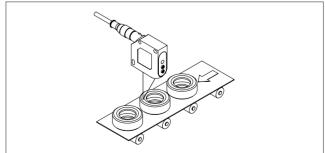
Recognition of seams



An infrared proximity switch with background suppression is used in order to detect the seam reliably.

FT 50 IH

Recognition of tires

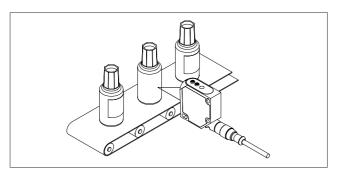


The recognition of dark objects in front of a light background is made easier by the background suppression.



FT 50 C

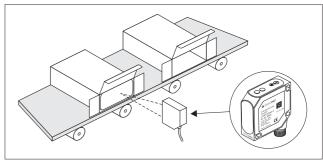
Label control



Multi-coloured labels are detected by the scanning function in a reliable way.

FT 50 RH

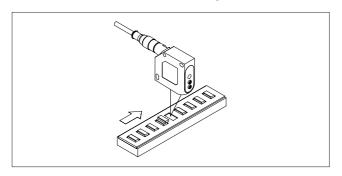
Recognition of objects in packagings



The completion of packaging is checked with a proximity switch with background suppression.

FT 50 RH

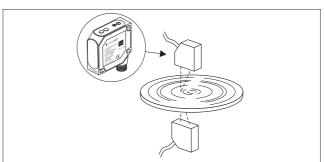
Control of ICs before assembly



By means of a proximity switch, double or missing ICs can be detected before assembly.

FR 50 RLA

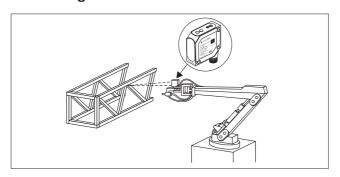
Measurement of wafer thickness



The laser proximity switch puts out a distance-adequate voltage via its analogue output, which corresponds to the thickness of the wafers.

FT 50 RLA

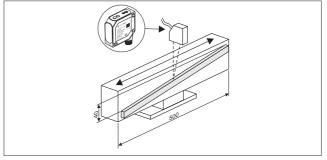
Positioning of a robot arm



Thanks to the distance-dependent voltage at the analogue output of the sensor, a precise positioning can be effected.

FT 50 RLA

Position control

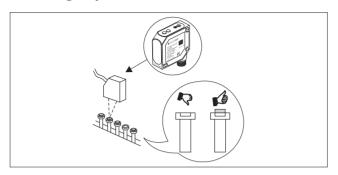


From detecting the distance, the position of the work piece can be concluded.



FT 50 RLH

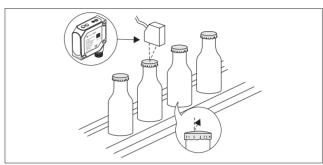
Checking of pins



The laser proximity switch detects the presence of the rubber inserts in the pins in a reliable way.

FT 50 RLH

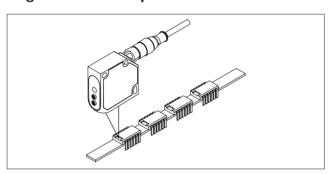
Checking of the bulge of aluminium lids



A bulge too strong can indicate fermentative processes or putrefaction and is detected by means of a laser proximity switch with background suppression.

FT 50 RLH

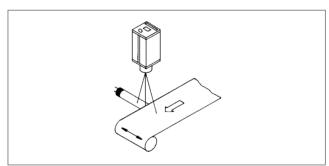
Alignment of microprocessors



The laser sensor can control the position of the processors with the help of the openings.

FZS 1024

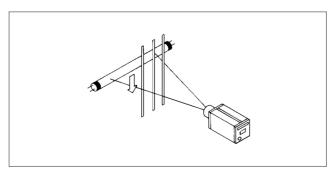
Edge control



Horizontal deviations are detected accurately to the millimetre, enabling immediate reaction.

FZS 1024

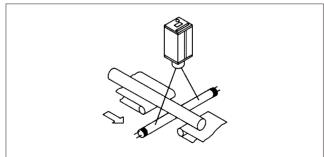
Detection of missing parts



A missing string is reliably detected.

FZS 1024

Diameter control

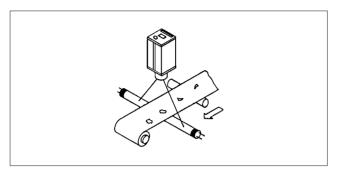


A change in the diameter causes an immediate change in the quantity of light falling on the CCD line of the FZS.



FZS 1024

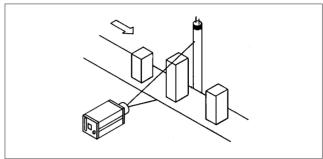
Detection of holes



Holes would result in a short light incidence.

FZS 1024

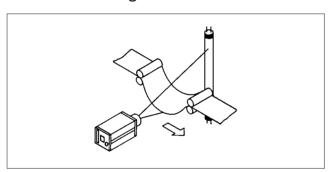
Measuring of length



Sorting tasks can be accomplished with the FZS as well.

FZS 1024

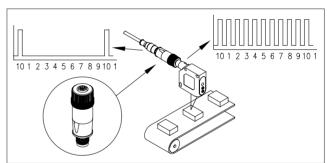
Detection for a sag



The sag of a belt is controlled in order to avoid tearing.

SmartPlug MFC

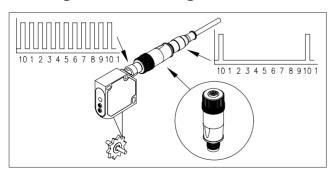
Counting of parts in a container with F50



There is a switch signal after every 10th object - a typical application in packaging.

SmartPlug MFC

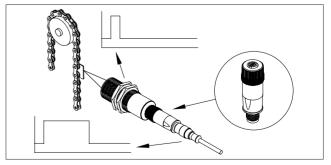
Counting of the teeth of a gear wheel with F50



The rotation of a gear wheel can also be counted.

SmartPlug MFT

FMS 30, chain detection with FMS 30

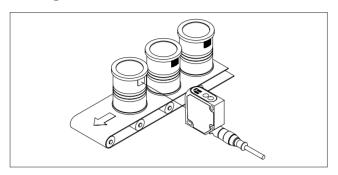


Here the SmartPlug causes a pull-off delay, so that the SPS can evaluate the fast movement of the chain.



FT 50 C

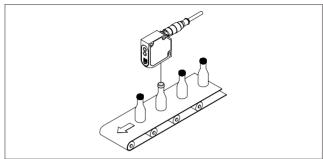
Sorting of tins



Batches of tins can be sorted by means of printed colour marks.

FT 50 C

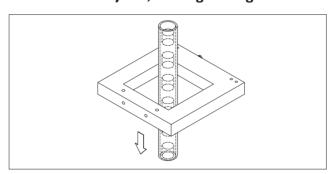
Checking of lids by colour code



False-colour lids are sorted out.

FG

Detection of objects, moving through a hose



Due to the dynamic processing, it is possible to detect objects that are moving through a partly transparent hose.