

W 160: Miniature series for optimum solutions

	Photoelectric proximity switches, BGB
	Photoelectric proximity switches, energetic
	Photoelectric reflex switches



optic cables with approx. 50 different configuration options are available as accessories.

W 160 switches have proven particularly successful in the following sectors:

- electronic component and printed circuit board production,
- the packaging and printing industries,
- assembly and handling systems,
- the construction of special-purpose machines, and
- conveyor systems.

	Through-beam photoelectric switches
	P/e switches w. fibre-optic cable (proximity mode)
	P/e switches w. fibre-optic cable (through-beam mode)

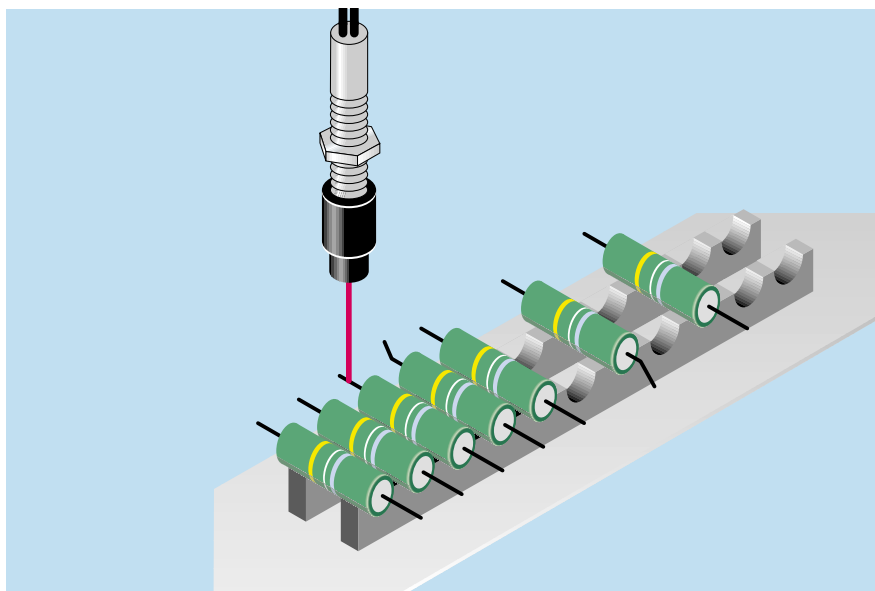
PPrincipal system characteristics are simple handling, large scanning ranges and a reduced number of sensor types thanks to integrated L.ON/D.ON switches. Integrated "intelligence" features such as pre-failure signalling output, test input (cable versions only) or external teach-in (WLL 160 T) increase system reliability under severe environmental conditions.

All W 160 optic variants are available in 2 housing versions with axial or 90° light emission.

WLL 160 fibre-optic cable photoelectric switches with switching point adjustment (manual using potentiometers or automatic at the push of a button using the teach-in method) complete the W 160 series. LL 3 plastic fibre-

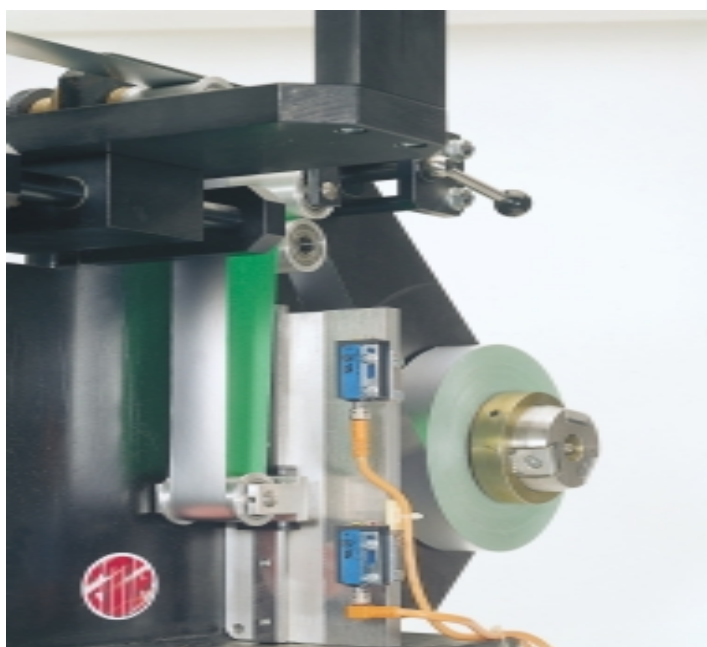
The scanning ranges:

- WS/WE 160 through-beam photoelectric switch: 7 m, slotted mask as accessory,
- WL 160 photoelectric reflex switch: 3 m (PL 80 A), with polarising filter,
- WT 160 photoelectric proximity switch: energetic: scanning distance up to 300 mm (90 % remission), for standard scanning tasks; with focused optics: scanning distance between 8 and 50 mm, background blanking, small light spot, high sensitivity; with divergent optics (angle of dispersion approx. 40°): scanning distance up to 80 mm; ideal for transparent objects.

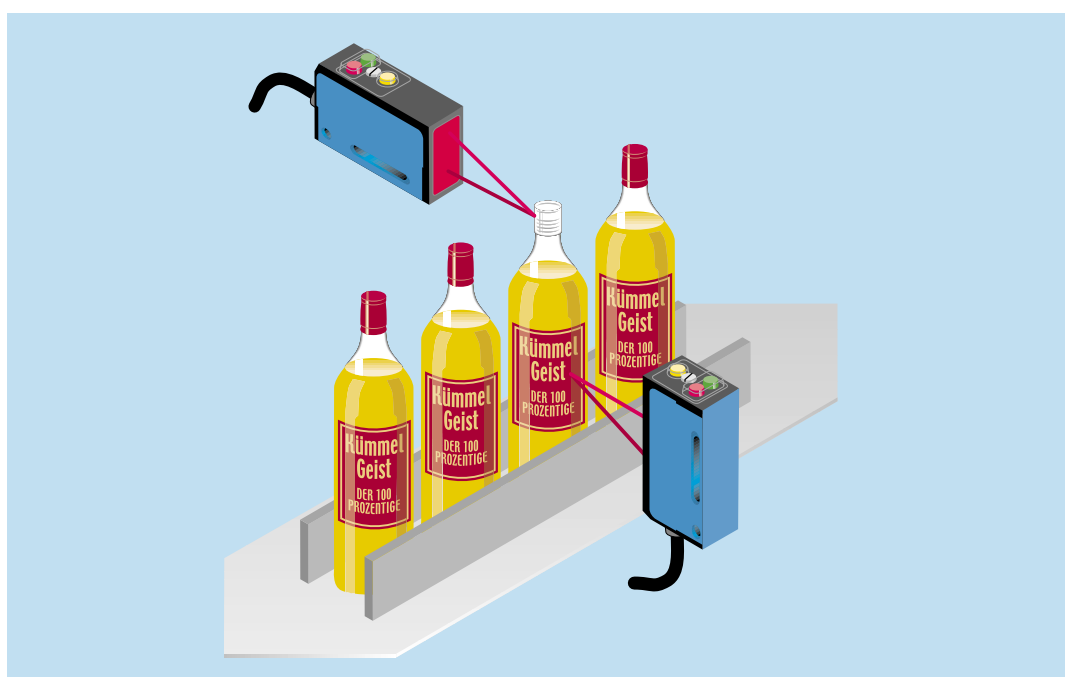
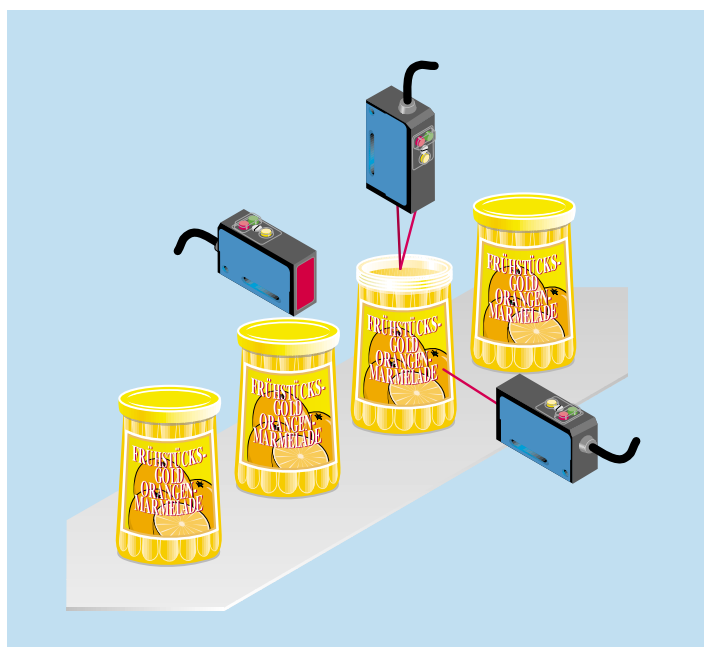


◀ Resistor production: fibre-optic WLL
160 switches can detect even the thinnest of wires without any problem.

▼ Checking the presence of caps and covers: Using a WT 160 photoelectric proximity switch to detect lids and WS/WE 160 through-beam photoelectric switches to monitor system timing.



▲ The WT 160 miniature photoelectric proximity switch is used in film and foil processing to control feed tension.



► Checking caps and labels using WT 160 photoelectric proximity switches.