

# Performance that makes a difference



## Long operational lifetime

Ensuring that products do not fail during production and require only minimal service attention enhances productivity and reduces maintenance costs.

### 1. Models with enhanced protection and tested resistance against harsh environments

- Tested resistance against aggressive chemicals, extreme temperatures, low pressure (vacuum), mechanical abuse

### 2. Preventing fiber breakage

- Housing construction preventing protruding cables (e.g. square shape, side view models)
- High flex fibers with 1mm bending radius for close wall mounting
- Robot fibers tested with more than one million bending cycles
- Protective metal or plastic tubes

### 3. Operational stability

- LED power control against aging effects
- Auto-threshold control for enhanced compensation of power decrease, e.g. through dirt on lenses



## Easy to set up and adjust

With minimal time required for mounting the fibers the productivity can be enhanced for machine builders and the easy setting of the amplifiers simplifies production changes for machine users.

### 1. Easy-teach amplifiers or manual adjusters

- Easy manual adjustment by potentiometer
- One-button auto teach for in-process dynamic teaching, or two-point object teaching

### 2. Wide range of easy-to-mount fibers

- One-screw-mount fibers with hexagonal back
- Square shapes for simple surface mounting
- Side view for simple alignment
- Application-optimised housings (e.g. fork shape for label and foil detection, tube for liquid level detection, etc.)



## High accuracy in smallest size

OMRON's precise manufacturing processes with inspection system supported alignment of the fibers and lenses achieve minimal tolerance variations in all standard models and allow the detection of the smallest objects and height differences of less than 100µm.

- High beam axis accuracy for side view models through precise fiber bending or angle mirror surface treatment
- High spot evaluation precision on coaxial models through equal fiber distribution
- Accurate distance setting through precise lens and beam alignment

# The little extra

For your advanced application requirements, adaption to specific settings, or special solutions, our sales, application and engineering teams near you will provide additional service and support....what can we do for you?



## Application solution support

- Product selection and configuration support for best application fit and value for money
- Best practice tips & tricks for highest operational stability

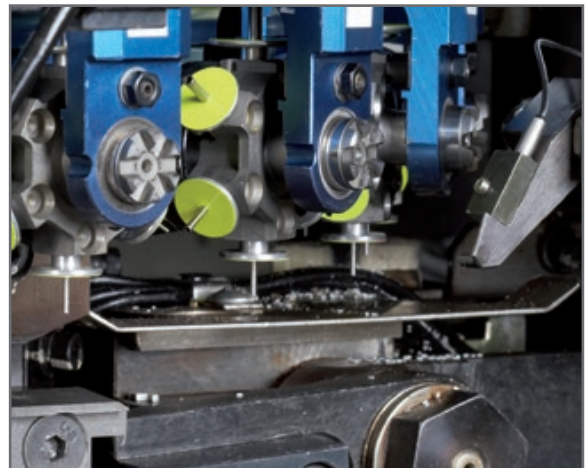
## Product modifications

- Fiber length, material and type adaptations
- Fiber head material modifications



## Advanced connectivity and communication

- Remote teach
- Online parameter monitoring
- Connecting the amplifiers via field bus



## Special solutions

- Application-specific configurations of focal lens, mounting head and fiber type
- Application-specific software, or parameter pre-configurations