

OK500320

OPTICAL SENSORS • CONTRAST SCANNERS

Contrast scanners are capable to distinguish the the visual differences (e.g. reflectivity, brightness differences) between adjacent areas. In general, the devices project a light spot on an object's surface and analyze the reflected light. Fiber optic amplifier versions can be used in addition to the incident light mode also in the transmitted light mode. Contrast scanners are versatile. They can be used, among other things, for position control of printing or color marks, distinction of brightness variations or in the intensity control of luminous objects (like LEDs, displays etc.).



MECHANICAL DATA

| Ambient temperature | -10 °C 60 °C |
|------------------------------|---------------|
| Degree of protection (IP) | IP67 |
| Housing design | Cuboid |
| Housing material | Zinc die-cast |
| Material of optical surface | PC |
| Sensor height | 15 mm |
| Sensor length | 40 mm |
| Sensor width | 50 mm |
| With fiber optics connection | No |
| With interchangeable lens | No |

FLECTRICAL DATA

| ELECTRICAL DATA | |
|---|--|
| Analogue output 0 mA 20 mA | No |
| Analogue output 0 V 10 V | No |
| Analogue output -10 V +10 V | No |
| Analogue output 4 mA 20 mA | No |
| Max. output current | 200 mA |
| No-load current | 40 mA |
| Number of pins | 4 |
| Operating voltage | 10 V 35 V |
| Rated control supply voltage Us at DC | 10 V 35 V |
| Setting procedure | Teach-In |
| | |
| Switching frequency | 3000 Hz |
| Switching frequency Type of electrical connection | 3000 Hz Connector M12 |
| | |
| Type of electrical connection | Connector M12 |
| Type of electrical connection Type of switching function | Connector M12 Push-pull |
| Type of electrical connection Type of switching function Type of switching output | Connector M12 Push-pull PNP/NPN |
| Type of electrical connection Type of switching function Type of switching output Voltage drop | Connector M12 Push-pull PNP/NPN 2 V |
| Type of electrical connection Type of switching function Type of switching output Voltage drop Voltage type | Connector M12 Push-pull PNP/NPN 2 V DC |



OPTICAL DATA

| Detection of print marks | Yes |
|--------------------------|-------------|
| Light source | White light |
| Light spot | 7 mm² |
| Nominal sensing range | 30 mm |

DIMENSIONAL DRAWING

INSTALLATION DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!