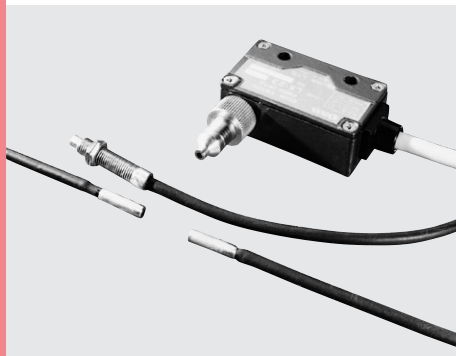


LX-23

Related Information

- General terms and conditions..... F-17
- Sensor selection guide..... P.831~
- Glossary of terms..... P.1359~
- General precautions..... P.1405



- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

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High color sensing ability with a 0.1 ms high-speed response

SPECIFICATIONS

Fibers

Type	Thru-beam	Coaxial reflective	Fixed coaxial reflective	
Item	Model No.	FT-3	FR-3	FF
Applicable amplifier	LX-23			
Sensing range (Note 2)	30 mm 1.181 in	1 to 3 mm 0.039 to 0.118 in (Center: 1.5 mm 0.059 in)		
Min. sensing object	ø1.5 mm ø0.059 in	0.1 mm 0.004 in width black line on white paper (under the optimum condition)		
Fiber cable length	300 mm 11.811 in	300 mm 11.811 in	_____	
Allowable bending radius (Note 3)	R 30 mm 1.181 in or more			
Ambient temperature	-20 to +70 °C -4 to +158 °F (No dew condensation or icing allowed) Storage: -20 to +70 °C -4 to +158 °F		-10 to +40°C +14 to +104 °F (No dew condensation or icing allowed) Storage: -10 to +40 °C +14 to +104 °F	
Material	Sheath: Silicone tube Fiber core: Acrylic		Sheath: Brass (nickel plated) Fiber core: Acrylic	

- Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C **+73.4 °F**.
 2) The sensing range of the reflective type fiber is specified for white non-glossy paper (50 × 50 mm **1.969 × 1.969 in**) as the object.
 3) The allowable bending radius indicates the value when bending a fiber at a 90° angle.

Amplifier

Type	Optical lamp	
Item	Model No.	LX-23
Supply voltage	12 V DC ±10 % Ripple P-P 10 % or less	
Current consumption	150 mA or less	
Output	NPN transistor universal • Maximum sink current: 80 mA • Residual voltage: 1 V or less (at 80 mA sink current)	
Output operation	Light-ON	
Response time	0.1 ms (Max. response frequency: 10 kHz)	
Sensitivity adjuster	Optical multi-turn adjuster	
Protection	IP62 (IEC)	
Ambient temperature	-10 to +40 °C +14 to +104 °F (No dew condensation or icing allowed), Storage: -10 to 40 °C +14 to +104 °F	
Emitting element	Optical tungsten lamp (average lifetime: 20,000 hours)	
Case grounding type	Direct grounding	
Material	Die-cast zinc alloy	
Weight	Net weight: 150 g approx.	
Dimensions	W18.5 × H50 × D45 mm W0.729 × H1.969 × D1.772 in	

Note: Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C **+73.4 °F**.

- FIBER SENSORS
- LASER SENSORS
- PHOTOELECTRIC SENSORS
- MICRO PHOTOELECTRIC SENSORS
- AREA SENSORS
- LIGHT CURTAINS
- PRESSURE / FLOW SENSORS
- INDUCTIVE PROXIMITY SENSORS
- PARTICULAR USE SENSORS
- SENSOR OPTIONS
- SIMPLE WIRE- SAVING UNITS
- WIRE- SAVING SYSTEMS
- MEASUREMENT SENSORS
- STATIC CONTROL DEVICES
- ENDOSCOPE
- LASER MARKERS
- PLC / TERMINALS
- HUMAN MACHINE INTERFACES
- ENERGY CONSUMPTION VISUALIZATION COMPONENTS
- FA COMPONENTS
- MACHINE VISION SYSTEMS
- UV CURING SYSTEMS

MEMO

