SL-T11R

Industrial automation components

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Manufacturer	Keyence
Catalog number	sl-t11r
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

AC Output Voltage	230 V VAC
AC Output Current	4 A
DC Output Voltage	30 V VDC
DC Output Current	2 A
Response Time (ON to OFF)	6 ms
Response Time (OFF to ON)	15 ms
Compliance Standards	UL61496-1, IEC61496-1, EN61496-1 (Type 4 ESPE), ISO 13849-1:2015 (Category 4, PLe)
Operating Temperature Range	-10 to +55 °C
Storage Temperature Range	-25 to +60 °C
Enclosure Rating	IP20 (IEC60529), suitable for installation within control panels rated IP54 or higher

Description

The Keyence SL-T11R is a relay terminal designed to interface seamlessly with the SL-V series safety light curtains, providing a reliable and efficient solution for industrial safety applications. This device offers versatile output options, including 230 VAC at 4 A and 30 VDC at 2 A for resistive loads, as well as 230 VAC at 2 A (with a power factor of 0.3) and 30 VDC at 1 A (with a power factor of 0.3) for inductive loads.

The SL-T11R boasts a mechanical lifespan exceeding 10 million cycles and an electrical lifespan of over 100,000 cycles, ensuring long-term durability and consistent performance. Its response times are

optimized for safety applications, with an ON to OFF response of +6 ms and an OFF to ON response of +15 ms.

The device complies with several international safety standards, including UL61496-1, IEC61496-1, EN61496-1 (Type 4 ESPE), and ISO 13849-1:2015 (Category 4, PLe), providing assurance of its reliability and safety in various industrial environments.

The SL-T11R operates on a 24 VDC power supply with a tolerance of ±10% and a ripple (P-P) of 10% or less, consuming 100 mA or less when operating independently. Its environmental resistance features an enclosure rating of IP20 (IEC60529), suitable for installation within control panels rated IP54 or higher.

The device is designed to function in ambient temperatures ranging from -10 to +55 °C (14 to 131 °F) and relative humidity levels between 15% and 85% RH (without condensation). Constructed with a polycarbonate housing, the SL-T11R weighs approximately 330 g, making it a robust and reliable component for enhancing industrial safety systems.