KEYENCE SZ SERIES

Product Data Sheet

SZ-01S

Single function safety scanner

SELECTABLE ZONE SETS	DETECTION ANGLE	SELECTABLE OBJECT DIAMETERS	MAXIMUM PROTECTION RADIUS
One	**270 degrees, -45...225 degrees**	**30, 40, 50, 70 or 150 mm**	**4.2 m at 70/150 mm setting in -5...185 degree sector**

KEYENCE SZ-01S is the simple-function SZ series safety laser scanner with one configurable zone set and a 270-degree detection angle. Two OSSD safety outputs are available, with PNP or NPN operation selected by the matching connector cable.

01 TECHNICAL DATA

Selectable zone sets	One
Detection angle	270 degrees, -45...225 degrees
Selectable object diameters	30, 40, 50, 70 or 150 mm
Maximum protection radius	4.2 m at 70/150 mm setting in -5...185 degree sector
Minimum-object protection radius	1.8 m at 30 mm setting in -5...185 degree sector
Scan A shutdown response	60...480 ms, configured scan count dependent
Scan B shutdown response	66...528 ms, configured scan count dependent
Laser wavelength	905 nm infrared
Laser classification	Class 1
OSSD safety outputs	Two; PNP or NPN selected by cable

KEYENCE SZ Series catalog KA1-0049, exact SZ-01S specifications and wiring; current KEYENCE SZ-01S online specification

02 ADDITIONAL PRODUCT DATA

OSSD current limit	500 mA; combined-load conditions apply
Auxiliary outputs	Two, 50 mA maximum each
Converter supply	24 V DC +/-10%, ripple 10% peak-to-peak maximum
Maximum unloaded power	9.5 W
Ingress rating	IP65 with cover closed and specified cable connected

03 PRODUCT FUNCTION

The maximum protection radius is 4.2 m for the 70 mm or 150 mm object setting in the central angular sector, while smaller object settings reduce the available range. Response time depends on scan mode and scan count; the unit uses a Class 1 infrared laser, two auxiliary outputs and an IP65 enclosure when all covers and connectors are secured.

04 SYSTEM COMPATIBILITY

Use the correct PNP or NPN connector cable and wire both OSSD channels to the validated safety circuit. Keep auxiliary outputs separate from safety outputs, observe the total output-load limits and preserve the specified power-supply tolerance.

05 REFERENCE

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