

JIS

JAPANESE INDUSTRIAL STANDARD

Retroreflectors—Optical properties —Vocabulary

JIS Z 8713—1995

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**In the event of any doubt arising,
the original Standard in Japanese is to be final authority**

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Retroreflectors – Optical properties – Vocabulary Z 8713-1995

1. Scope The Japanese Industrial Standard specifies the vocabulary concerning optical properties of retroreflectors.

Remarks: The following standard is cited in this Standard:

JIS Z 8113 Glossary of lighting terms

2. Classification Classification of vocabulary shall be as follows:

- (1) Vocabulary expressing general concepts
- (2) Vocabulary mainly relating to photometry
- (3) Vocabulary mainly relating to geometric condition

3. Terms and definitions Terms and definitions shall be as follows:

Remarks 1. The basic terms used in the definition blocks are derived from JIS Z 8113.

2. In definition blocks, the numerals given in () following the terms are the term numbers in this Standard.

(1) Vocabulary expressing general concepts

No.	Term (Japanese characters)	Reading	Definition	English equivalent (informative reference)
101	再帰反射	SAIKI HANSYA	Such reflection that the reflected light returns selectively in direction close to the optical path of incident light over wide entrance angle (310).	retroreflection
102	再帰性反射体	SAIKISEI HANSYATAI	Surface or device almost all of reflected light from which are retroreflective.	retroreflector
103	再帰反射性能	SAIKI HANSYA SEINŌ	Photometric properties of reflected light returning selectively close to the direction of incident light when the retroreflector (102) is illuminated from a certain direction. Remarks: Retroreflective properties are expressed by coefficient of luminous intensity of retro-reflection, coefficient of retroreflection or coefficient of retroreflected luminance.	retroreflective properties

(2) Vocabulary mainly relating to photometry

No.	Term (Japanese characters)	Reading	Definition	English equivalent (informative reference)
201	再帰反射光度係数	SAIKI HANSYA KŌDO KEISU	Quotient obtained by dividing luminous intensity I in the direction of observation by means of the retro-reflector (102) by illuminance E_n received by the retro-reflector put perpendicularly to the direction of incident light. Quantitative symbol: R $R = \frac{I}{E_n}$ Unit: $\text{cd} \cdot \text{lx}^{-1}$	coefficient of luminous intensity of retroreflection