



SURFACE VEHICLE STANDARD

J96™

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(R) Flashing Warning Lamp for Industrial Equipment

RATIONALE

Update to match SAE J974.

Update to match latest SAE J575 and remove extra requirements for photometry test, as they are already spelled out in SAE J575.

Changes in lamp size requirements to bring into harmonization with SAE J588 and SAE J2261 and provide greater flexibility for smaller equipment which may have limited mounting space.

Added related publications.

1. SCOPE

This SAE Standard covers the general requirements and the test requirements for a flashing warning lamp for industrial wheeled equipment.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J567	Light Source Retention System
SAE J575	Test Methods and Equipment for Lighting Devices for Use on Vehicles Less than 2032 mm in Overall Width
SAE J578	Color Specification
SAE J588	Turn Signal Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width

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2.2 Related Publications

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2.2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J1889 LED Signal and Marking Lighting Devices

SAE J2139 Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width

SAE J2261 Stop Lamps and Front- and Rear-Turn Signal Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width

3. DEFINITIONS

3.1 INDUSTRIAL WHEELED EQUIPMENT

That class of tractors and associated equipment used in operations such as landscaping, construction services, loading, digging, grounds keeping, and highway maintenance.

3.2 FLASHING WARNING LAMP

A lighted device to indicate both forward and rearward the presence of industrial equipment which normally travel at rates of speed below that of other traffic.

4. GENERAL REQUIREMENTS

4.1 The lamp shall comply in both the forward and rearward direction with the candela requirements of a turn signal lamp, SAE J588, Table 1. In addition, the lamp shall project at least 4 cd on both sides at 90 degrees to the lamp axis. If the lamp is integrated into the cab or body of the machine, only the out-board side of the lamp need meet the minimum 4 cd requirement. If the lamp is mounted on a vehicle such that it will be obscured in one direction by vehicle structure, it need not comply with the candlepower requirements in that direction as long as a second lamp on that vehicle fulfills those requirements.

4.2 The color of the light from the warning lamp shall be amber in accordance with SAE J578.

4.3 The lamp shall be flashed at least 60 fpm (flashes per minute) but not more than 120 fpm when it is operating.

4.4 For equipment less than 2032 mm in overall width, the effective projected illuminated area measured on a plane at right angles to the axis of the lamp shall be at least 50.0 cm² (7.75 in²) for a rear lamp and at least 22.0 cm² (3.4 in²) for a front lamp. For equipment 2032 mm or greater in overall width, the effective projected luminous lens area measured on a plane at right angles to the axis of the lamp shall be at least 75 cm² (11.6 in²).

4.5 The bulb sockets, if applicable, shall comply with SAE J567.