

Submitted for recognition as an American National Standard

ROPE DRUM ROTATION INDICATING DEVICE

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. Scope—This SAE Recommended Practice applies to cranes when used in lifting crane service which are equipped with rope drum rotation indicating devices.

1.1 Purpose—The purpose of this recommended practice is to establish the minimum performance requirements for devices used to indicate to the crane operator by visual, audible, or tactile means the movement of a rope drum.

2. References—There are no referenced publications specified herein.

3. Definitions

3.1 Rope Drum Rotation Indicating Device (hereafter called Device)—A device used to indicate to the crane operator by visual, audible, or tactile means the movement of a rope drum.

4. Minimum Performance Criteria

4.1 The device sensor is to monitor rope drum movement to identify and transmit this information to the crane operator by using one or more of the following methods:

4.1.1 VISUAL INDICATION—The visual indication is to be clearly distinguishable to the operator.

4.1.2 AUDIBLE INDICATION—The audible signal is to be clearly distinguishable to the operator from the noise of the engines, machinery, and any other audible warning device.

4.1.3 TACTILE INDICATION—The tactile indicator is to be located so that the crane operator may monitor drum rotation while operating the controls.

4.1.4 None of the above indications shall cause operator discomfort or cause any operational hazard.

4.2 The Device is to be sufficiently responsive to indicate initial drum rotation producing rope travel of 50 mm (2 in). The Device is to differentiate rope speeds less than 1 m/s and will accommodate all speeds recommended by the crane manufacturer.

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- 4.3 The Device is to indicate the direction of rope travel when not otherwise indicated by control position.
- 4.4 **Temperature Effect**—The Device is to operate over ambient temperature variations of -30 to $+50$ °C (-22 to $+122$ °F).
- 4.5 **Testing**—The Device is to be initially tested to establish compliance with 4.2, 4.3, and 4.4.
5. **General Requirements**
- 5.1 **Installation and Maintenance**—Installation and maintenance of the Device is to be in accordance with the manufacturer's recommendation to attain performance consistent with minimum requirements (Section 4).
- 5.2 **Identification**—A label, when applicable, is to be provided giving the Device manufacturer's name, address, and model number.

PREPARED BY THE SAE OFF-ROAD MACHINERY TECHNICAL COMMITTEE SC17—EXCAVATORS

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