

Electro-sensitive safety systems for industrial machines —

Part 2: Specification for particular requirements for an electro-sensitive safety system incorporating a photoelectric sensing unit(s)

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- Machine Tool Industry Research Association

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Foreword

This Part of BS 6491 has been prepared under the direction of the General Electrotechnical Engineering Standards Committee.

BS 6491 refers only to the technical suitability of the equipment for the electro-sensitive safety system. It may be that its application will require the use of substances and/or test procedures that could be injurious to health if adequate precautions are not taken. Compliance with BS 6491 does not absolve either the supplier or the user from statutory obligations relating to the safety and health of employees and others during the manufacture or use of the equipment covered by BS 6491.

The increasing use within industry of photoelectric devices for safeguarding machinery both cyclic and continuously running has led to a demand for a standard embracing a range of electro-sensitive safety systems. Approaches were made to BSI to develop a standard acceptable to the makers, industrial users and safety enforcement authorities.

Part 1 of BS 6491 provides general requirements for electro-sensitive safety systems of various types and employing various methods of presence sensing. This Part of BS 6491 complements Part 1 in giving the requirements for photoelectric sensing units.

Subsequent Parts of BS 6491 will be published if and when sensing units employing non-photoelectric techniques have been developed to the stage of meeting equivalent standards of safety integrity.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.