



**Note: The MUNI implemented in November 2017 replaces OPSS 2485 COMMON, November 2015 with no technical content changes.**

## **MATERIAL SPECIFICATION FOR PHOTOELECTRIC CONTROLLERS**

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<b>2485.01</b>	<b>SCOPE</b>
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This specification covers the requirements for electronic photoelectric controllers rated for 1,800 VA for use with 105 to 305 volt power supply at 60 Hz.

#### **2485.01.01 Specification Significance and Use**

This specification has been developed for use in municipal-oriented Contracts. The administration, testing, and payment policies, procedures, and practices reflected in this specification correspond to those used by many municipalities in Ontario.

Use of this specification or any other specification shall be according to the Contract Documents.

## **2485.01.02 Appendices Significance and Use**

Appendices are not for use in provincial contracts as they are developed for municipal use, and then, only when invoked by the Owner.

Appendices are developed for the Owner's use only.

Inclusion of an appendix as part of the Contract Documents is solely at the discretion of the Owner. Appendices are not a mandatory part of this specification and only become part of the Contract Documents as the Owner invokes them.

Invoking a particular appendix does not obligate an Owner to use all available appendices. Only invoked appendices form part of the Contract Documents.

The decision to use any appendix is determined by an Owner after considering their contract requirements and their administrative, payment, and testing procedures, policies, and practices. Depending on these considerations, an Owner may not wish to invoke some or any of the available appendices.

## **2485.02 REFERENCES**

When the Contract Documents indicate that provincial-oriented specifications are to be used and there is a provincial-oriented specification of the same number as those listed below, references within this specification to an OPSS shall be deemed to mean OPSS.PROV, unless use of a municipal-oriented specification is specified in the Contract Documents. When there is not a corresponding provincial-oriented specification, the references below shall be considered to be to the OPSS listed, unless use of a municipal-oriented specification is specified in the Contract Documents.

When the Contract Documents indicate that municipal-oriented specifications are to be used and there is a municipal-oriented specification of the same number as those listed below, references within this specification to an OPSS shall be deemed to mean OPSS.MUNI, unless use of a provincial-oriented specification is specified in the Contract Documents. When there is not a corresponding municipal-oriented specification, the references below shall be considered to be the OPSS listed, unless use of a provincial-oriented specification is specified in the Contract Documents.

This specification refers to the following standards, specifications, or publications:

### **CSA Standards**

C239-02 (R2011) Performance Standard for Dusk-to-Dawn Luminaires

### **American National Standards Institute (ANSI)**

C136.10-2010 Roadway and Area Lighting Equipment - Locking-Type Photocontrol Devices and Mating Receptacle - Physical and Electrical Interchangeability and Testing

**2485.07                      PRODUCTION**

**2485.07.01                General**

Photoelectric controllers shall be electronic and according to CAN/CSA C239.

Photoelectric controllers shall be of weatherproof construction and operational within a temperature range of -40 to 65 °C.

Photoelectric controllers shall be factory preset at 16 lux switch-on light level and 50 lux switch-off light level.

**2485.07.02                Electrical Requirements**

Photoelectric controllers shall be provided with three locking type blades according to ANSI C136.10.

Photoelectric controllers shall be supplied with contacts normally closed at nighttime or under failure conditions. Photoelectric controllers shall have an internal lightning arrester with a minimum spark over of 2.0 kV. The power consumption of the photoelectric controller itself shall be 5 watts or less.

**2485.07.03                Marking**

A permanent type of identification shall be provided on the outside of the photoelectric controller indicating the manufacturer's name or trademark, catalogue number, voltage, VA rating, and date coding.

**2485.09                    OWNER PURCHASE OF MATERIAL**

**2485.09.01                Packaging and Shipment**

Each photoelectric controller shall be shipped complete with hardware and individually packaged and identified on the outside of the package.

The supplier shall advise the Owner 3 Working Days prior to the shipping date of the intent to deliver.

**2485.09.02                Measurement and Payment**

For measurement purposes, a count shall be made of the number of photoelectric controllers delivered and accepted.

Payment at the price specified in the purchasing order shall be for the supply of the photoelectric controllers delivered to the destination on the date and time specified.

**Appendix 2485-A, November 2017  
FOR USE WHILE DESIGNING MUNICIPAL CONTRACTS**

**Note:** This is a non-mandatory Commentary Appendix intended to provide information to a designer, during the design stage of a contract, on the use of the OPS specification in a municipal contract. This appendix does not form part of the standard specification. Actions and considerations discussed in this appendix are for information purposes only and do not supersede an Owner's design decisions and methodology.

**Designer Action/Considerations**

The designer should ensure that the General Conditions of Contract and the 100 Series General Specifications are included in the Contract Documents.

**Related Ontario Provincial Standard Drawings**

No information provided here.