



QUICK START CONNECTION GUIDE

Select Commercial Door Operators

TruGuard™, OptiGuard™

Photo Optic Systems 

MODELS: TG-R-K10, OG-T-K10

WARNING

Read and understand all instructions before beginning installation. Disconnect power to motor and test upon completion. Photo optics should be installed by qualified personnel to ensure the requirements herein have been met. Keep these instructions with the installation. Always abide by local and national electrical code specifications when wiring accessories to motor controls.

This guide provides quick reference information for connecting TruGuard™ and OptiGuard™ photo optic systems to select commercial door operator inputs. It is intended to supplement, not replace, the full installation instructions. Use this guide to assist in identifying wiring terminals and connection methods specific to Doorlec®, LiftMaster®, Nice/Micanan®, and Manaras® brand commercial door operators.

Note: For complete installation requirements, system specifications, and safety considerations, refer to the full installation instructions included with the product.

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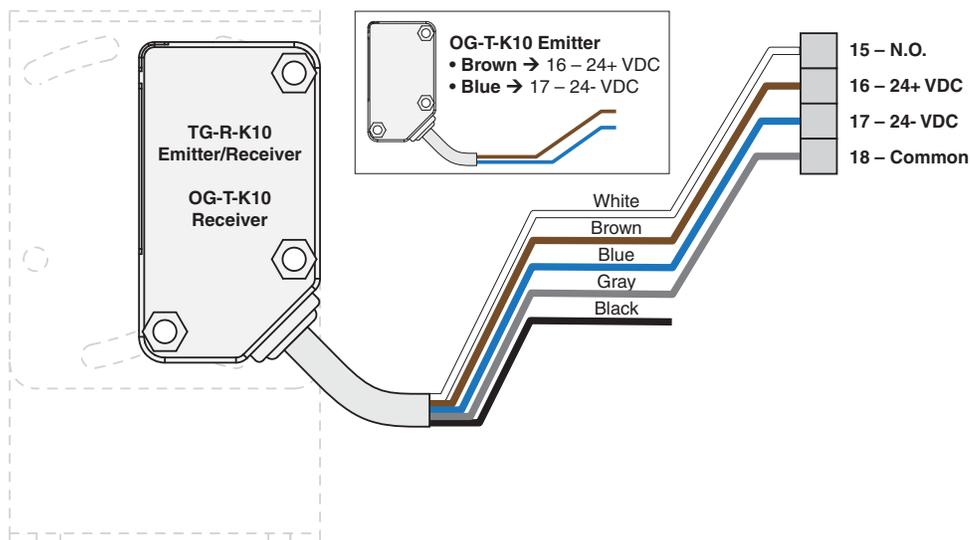
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Doorlec®

Monitored operators

PHOTO EYE WIRING

- White → 15 – N.O.
- Brown → 16 – 24+ VDC
- Blue → 17 – 24- VDC
- Gray → 18 – Common
- Black → Not used



TG-OG_QS_20250315

LiftMaster®

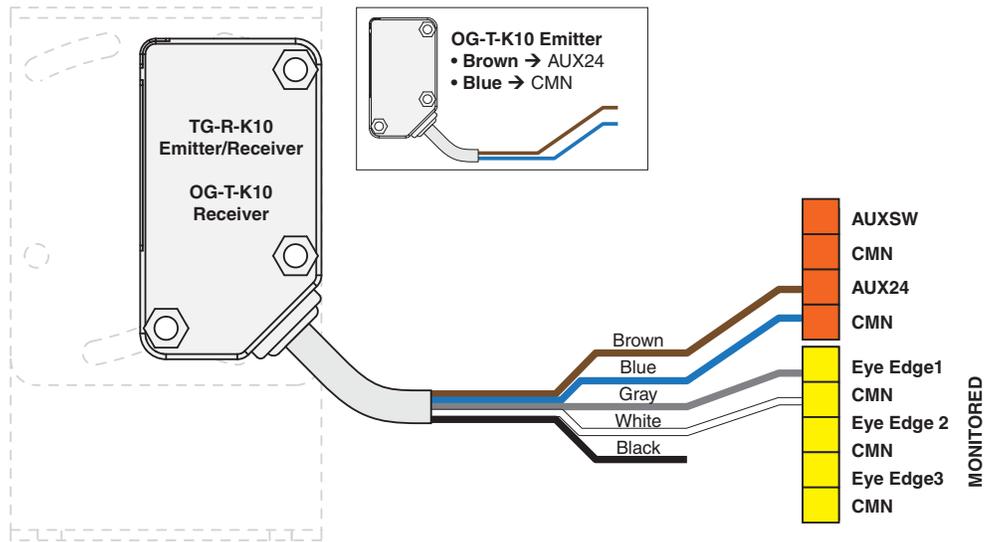
MAXUM
Monitored operators

Note: Non-monitored not supported.

Note: Learn as edge when programming.

PHOTO EYE WIRING

- Brown → AUX24
- Blue → CMN
- Gray → Eye Edge1, 2, or 3
- White → CMN
- Black → Not used



LiftMaster®

Logic 5.0
Monitored operators

Note: Non-monitored not supported.

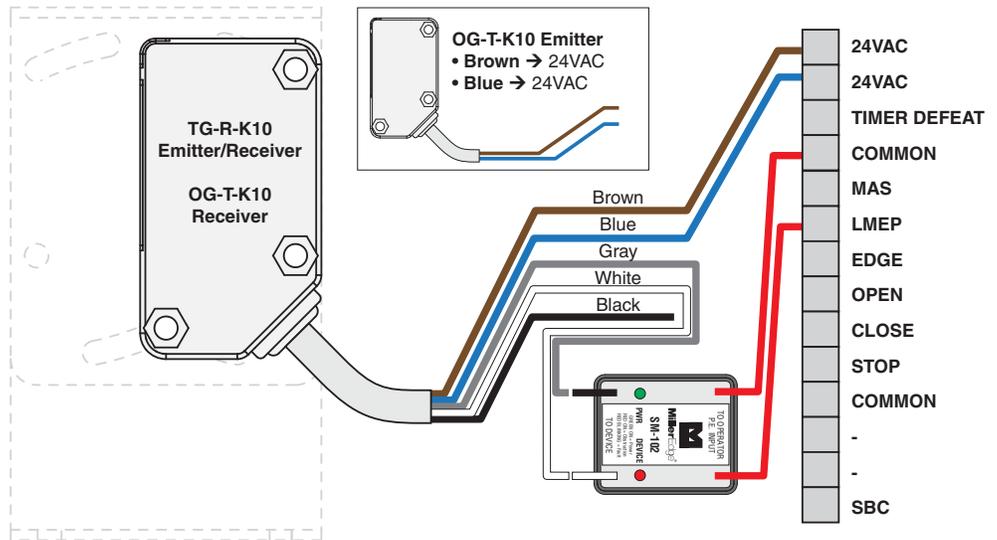
Required: Signature Module model SM-102.

PHOTO EYE WIRING

- Brown → 24VAC
- Blue → 24VAC
- White → SM-102 Black
- Gray → SM-102 White
- Black → Not used

SM-102 WIRING

- Red → COMMON
- Red → LMEP



Nice/Micanan®

Most monitored operators

Option 1: When photo eye is used as a **primary** device.

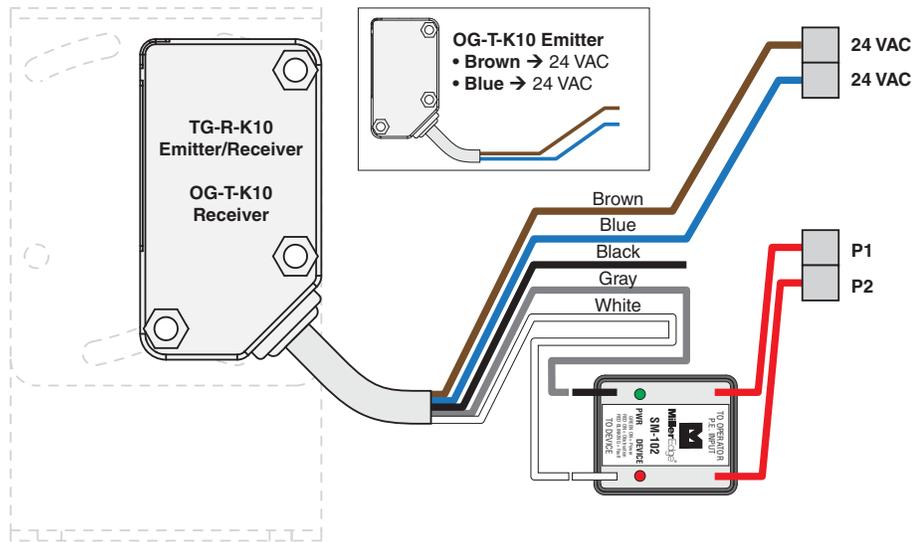
Required: Signature Module model SM-102.

PHOTO EYE WIRING

- Brown → 24 VAC
- Blue → 24 VAC
- Black → Not used
- Gray → SM-102 Black
- White → SM-102 White

SM-102 WIRING

- Red → P2
- Red → P1



Nice/Micanan®

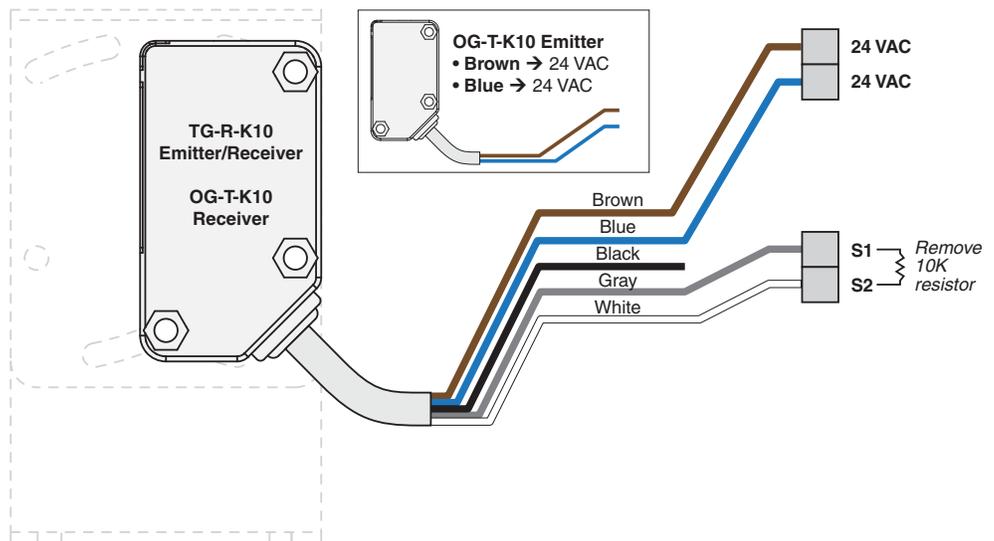
Most monitored operators

Option 2: When photo eye is used as a **secondary** device.

Note: Remove factory installed 10K resistor from S1 and S2 inputs.

PHOTO EYE WIRING

- Brown → 24 VAC
- Blue → 24 VAC
- Black → Not used
- Gray → S1
- White → S2



Manaras®

Most monitored operators

Note: Non-monitored not supported.

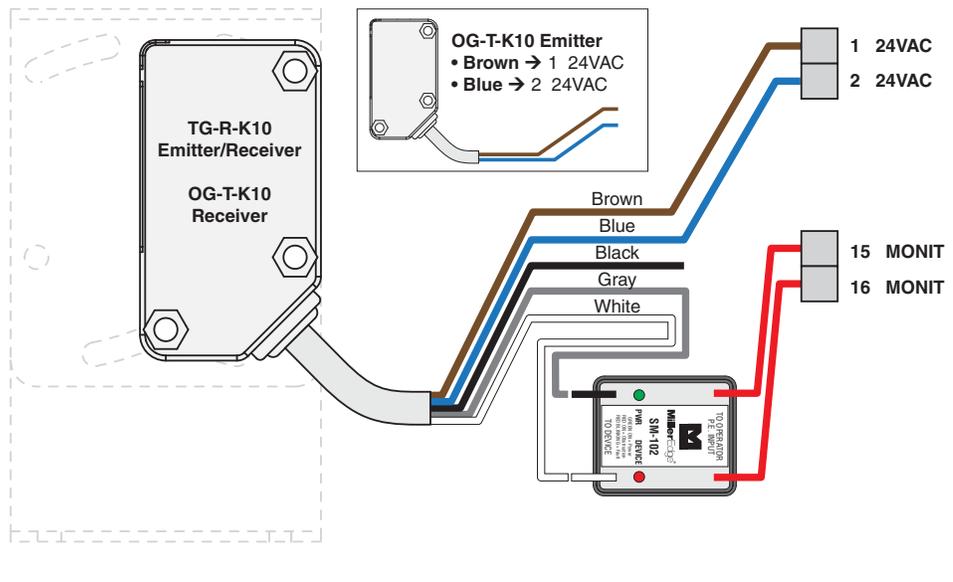
Required: Signature Module model SM-102.

PHOTO EYE WIRING

- Brown → 1 24VAC
- Blue → 2 24VAC
- Black → Not used
- Gray → SM-102 Black
- White → SM-102 White

SM-102 WIRING

- Red → Monit 15
- Red → Monit 16



LED Status Indicators

Once wiring is complete, refer to the LED indicators on the photo eye units to confirm proper function. These visual cues help confirm power, alignment, and troubleshooting needs:

TG-R-K10: TruGuard / OG-T-K10: OptiGuard

LED	ACTION	STATUS	DESCRIPTION / SOLUTION
Green	On: Solid	Power is present	Normal operation
	Off	No power	Verify power source; refer to operator manual for switched power
Yellow	On: Solid	Aligned	Normal operation
	On: Flashing	Signal is marginal	Re-align emitter/receiver and verify device maximum distance Relocate components
	Off	No signal or reflector not seen	Verify power source Remove any obstructions

SM-102: Signature Module

LED	ACTION	STATUS	DESCRIPTION / SOLUTION
Green	On: Solid	Power	Normal operation
	Off	No power	The photo eye is not detected; check the wire connection between SM-102 and the operator
Red	On: Solid	Fault: Device is active	Remove any obstructions
	On: Flashing	Fault: Device is open	The photo eye is not detected; check the wire connection between SM-102 and the photo eye
	Off	Device is not active	Normal operation

Trademark Acknowledgment

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