

WARNING

To reduce risk of SEVERE INJURY or DEATH to persons:

- All electrical wiring should be permanent and should be done by a qualified professional and in accordance to local electrical codes.
- Always shut OFF the main power before performing any electrical intervention.
- Use proper wire gauge for incoming power line. Use copper conductors only.
- Use cable type CL2, CL2P, CL2R, or CL2X complying with the Standard “UL13 - Power-Limited Circuit Cables” for accessory connections.
- Install operator main circuit breaker next to operator for easy access for power shut-off.
- Use separate knockouts on operator control box for accessories and main power cables.
- Always separate low and high voltage wires.
- Operator should be properly grounded to the building ground and to the main power supply ground lug.
- Always use suitable and appropriate rating circuit breakers for operator protection.
- Compare available power supply voltage to voltage on operator name plate prior to electrical connection. Failure to connect appropriate power supply voltage may cause serious damage to the operator.

Power Supply Connection

Single-Phase (115/230V)	Three-Phase (208/230-460-575V)
<p>Correct motor rotation: Switch the BLUE and ORANGE motor wires on the contactor.</p>	<p>Correct motor rotation: Switch ANY TWO incoming lines (phase) on the power terminal block.</p>

Run Mode Settings

Mode LIVE	Heavy-Duty	Operations	Medium-Duty (OMT, OMH, OMJ)	Operations
C2		B2 Mode → C2 Mode Move RED wire from terminal #7 → #5.		B2 Mode → C2 Mode Move RED wire from terminal #5 → #10.
B2		C2 Mode → B2 Mode Move RED wire from terminal #5 → #7.		C2 Mode → B2 Mode Move RED wire from terminal #10 → #5.

NOTICE

- Keep low voltage wires separate from line voltage wires.
- Use copper conductors only.
- Manaras-Opera strongly recommends the use of external entrapment protection devices, especially in the case of momentary contact to close (B2 wiring or Timer to Close).
- Always return the door to the **fully closed position** before performing any program settings.
- Photoelectric cells must be installed facing each other across the door's path within 6" (15 cm) of the plane of the door and the beam no more than 5-3/4" (14,6 cm) above the floor.

3 Push-Button Station (3 PBS) Connection

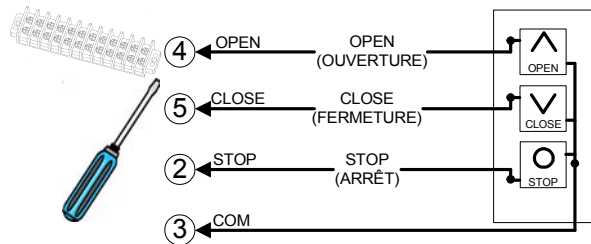


Figure 1 - STATION 020 / 084
3-PBS Open / Close / Stop

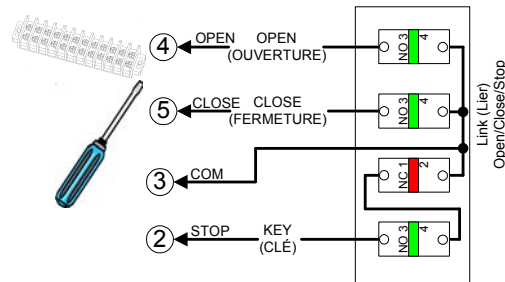


Figure 2 - STATION 079
3-PBS Open / Close / Stop with Key Lock-out

Electric Photo Cell / Photo Eye (Non-Monitored)

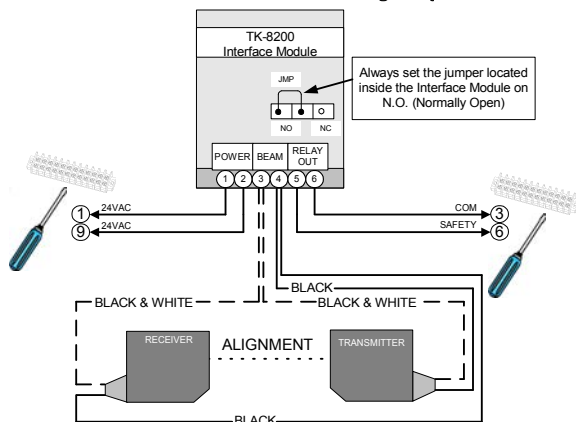


Figure 3 - PHOTO 008A/B Connection

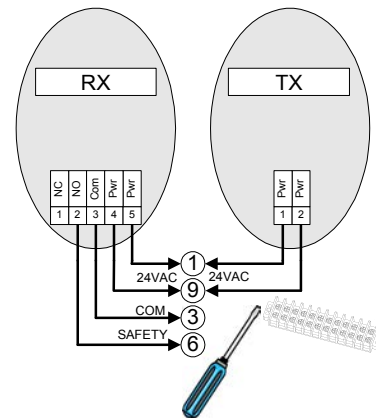


Figure 4 - PHOTO 015 / 016 / 045 / 050 / 051 / 059
Connection

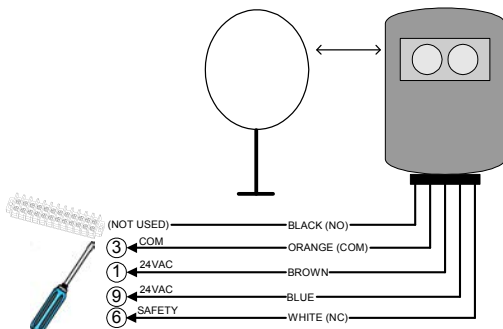


Figure 5 - PHOTO 038 Connection

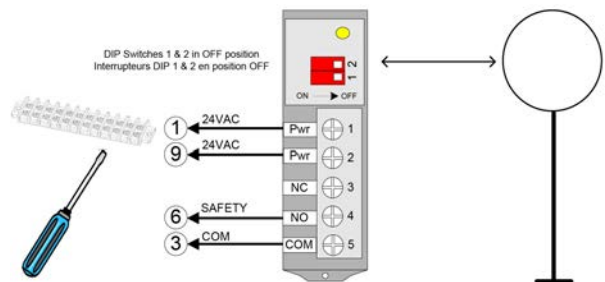


Figure 6 - PHOTO 060 Connection

For further information, please consult the operator's Installation & Instruction Manual.