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PENN | TC3KEY | Installation Guide Rev. A | Part No. 24-7664-03701 | Page 1 of 1 | April 28, 2020





The following figure shows an electrical connection to the TC3X21



The following figure shows an electrical connection to the following controllers

- TC3B21 TC3B22
- TC3B23 TC3221
- TC3222
- TC3223
- TC3224N9R





Note: Make sure you have a male type A USB or male Micro-B USB cable. The USB cable is not



Note: Make sure you have an USB power supply.

- To copy the configuration from the controller to the TC3KEY, complete the following steps: Attach the clamp connector of the TC3KEY to the bottom of the terminal block of the controller. For more information, see ELECTRICAL CONNECTION.
 - Connect one end of the USB cable to the USB port of the TC3KEY. Connect the other end of the USB cable to the USB port of the USB power supply.
 - Press the CLONE key for 1 s. The status LED glows red continuously for 1 s.
- Press and release the ENTER key when the status LED glows red continuously. The sta-5. tus LED flashes red for a few seconds. Then it glows green continuously for 1 s. The upload is successfully complete.
- Disconnect the ends of the USB cable
- If the controller has a fixed screw terminal block, disconnect the clamp connector of the 7. TC3KEY. If the controller has a plug-in screw terminal block, remove the female part of the terminal block.

3.3 Configuration download

To copy the configuration from the TC3KEY to the controller, complete the following steps:

Important

- The configuration download is allowed only if the firmware of the controller of origin coincides with the firmware of the controller of destination; if it does not coincide, the configuration download will fail and the status LED will show red light continuously for 1 s.
- If the configuration download fails, it could be necessary to restore the default factory settings of the controller. Refer to the installation guide that matches your controller
- Attach the clamp connector of the TC3KEY to the bottom of the terminal block of the controller. For more information, see ELECTRICAL CONNECTION. 2
- Connect one end of the USB cable to the USB port of the TC3KEY.
- Connect the other end of the USB cable to the USB port of the USB power supply.
- Press and release the CLONE key. The status LED flashes red for a few seconds. Then it glows green continuously for 1 s. The download is successfully complete.
- Disconnect the ends of the USB cable.
- If the controller has a fixed screw terminal block, remove the clamp connector of the 6 TC3KEY. If the controller has a plug-in screw terminal block, remove the female part of the terminal block.

Container:		Black, self-extinguishing	
Category of heat and fire resistance:		D	
Measurements:		33.0 x 73.5 x 13.0 mm (1 5/16 x 2 7/8 in x	
		1/2)	
Degree of protect. provided by the covering:		IPOO	
Connection	method:		
Clamp connector		Female Micro-B USB connector	
Operating temperature:		From 0 to 55 °C (from 32 to 131 °F)	
Storage temperature:		From -25 to 70 °C (from -13 to 158 °F)	
Operating humidity:		Relative humidity without condensate from	
		10 to 90%	
Compliance			
Europe	CE Compliant. Johnson Controls declares that this product is in compliand with the essential requirements and other relevant provisions of the EM		
	Directive and RoHS Directive.		
USA	FCC Compliant to CFR47, Part 15, Subpart B		
Canada	Industry Canada (IC) compliant to Canadian ICES-003		
Power supply:		USB power supply	
Software class and structure:		A	
Displays:		Upload or download status LED	

PRECAUTIONS FOR ELECTRICAL CONNECTION

- If the TC3KEY has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before connecting it to the controller
- Disconnect the TC3KEY from the controller before doing any type of maintenance.
- For repairs and for further information, contact a PENN sales representative.
- Disconnect the controller from the mains before connecting a serial interface or an RS-485 TC3KEY to the controller.

PRODUCT WA ANTY

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This product is covered by a limited warranty, details of which can be found at ww.johnsor ontrols.co h/buildingswarranty

6 SOFTWARE TERMS

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

SINGLE POINT OF CONTACT

PAC	Europe	NA/SA
OHNSON CONTROLS C/O CONTROLS PRODUCT MANAGEMENT IO. 32 CHANGJIJANG RD NEW DISTRICT VUXI JIANGSU PROVINCE 214028 CHINA	JOHNSON CONTROLS WESTENDHOF 3 45143 ESSEN GERMANY	JOHNSON CONTROLS 507 E MICHIGAN ST MILWAUKEE WI 53202 USA

8 CONTACT INFORMATION

Contact your local branch office: www.johnsoncontrols.com/locations Contact Johnson Controls: www.johnsoncontrols.com/contact-us

Important X

The device must be disposed of according to local regulations governing the collectio of electrical and electronic waste.

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