

# QX-870 INDUSTRIAL RASTER SCANNER CONFIGURATION GUIDE



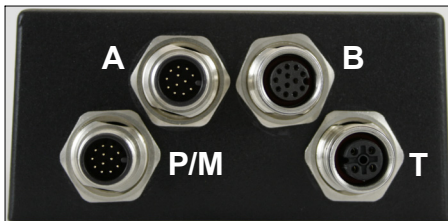
## Hardware Required

Item	Description	Part Number
1	QX-870 Industrial Raster Scanner	FIS-0870-XXXXG
2	QX-1 Interface Device	98-000103-02
3	QX Cordset, Common, M12 12-Pin Socket to M12 12-Pin Plug, 1 m	61-000162-02
4	QX Cordset, Host, Serial, M12 12-Pin Plug to DB9 Socket, 1 m	61-000152-02
5	QX Cordset, Host, Serial, M12 12-Pin Socket to DB9 Socket, 1 m	61-000153-02
6	QX Power Supply, 100-240VAC, +24VDC, M12 12-Pin Socket	97-000012-01
7	QX Cordset, Host, Ethernet, M12 8-Pin Plug to RJ45, 1 m	61-000160-02
8	QX Cordset, M12 12-Pin Plug to MS-Connect 5100, 3 m	61-000161-01
9	QX Cordset, M12 12-Pin Plug / M12 12-Pin Socket to MS-Connect 210, RS-232, 2 m	61-000158-03
10	QX Photo Sensor, M12 4-Pin Plug, NPN, Dark On, 2 m	99-000020-02

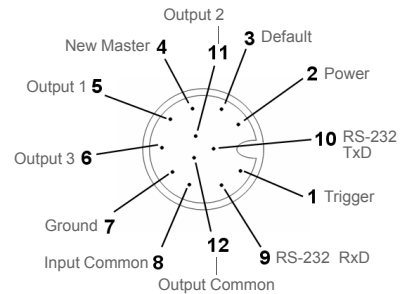
**Note:** Additional cordsets and accessories are available in the Omron Microscan Product Pricing Catalog.

## Pin Assignments

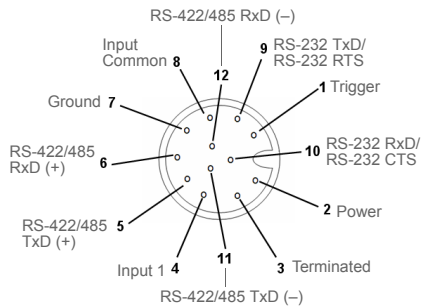
### QX-870 (Base View)



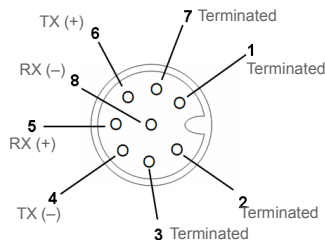
**A** is a serial M12 12-pin plug. It is the same for all models of the QX-870.  
**B** is a serial M12 12-pin socket for serial models and an Ethernet M12 8-pin socket for Ethernet models.  
**P/M** is a serial M12 12-pin plug.  
**T** is a 4-pin Micro-Change socket (identical to the QX-1 trigger connector shown below).



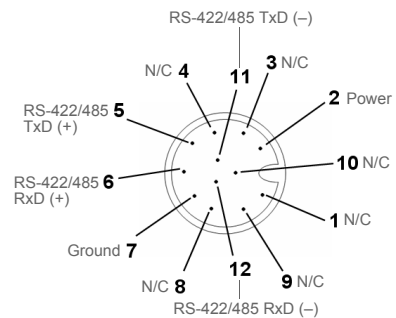
**A (All Models) M12 12-Pin Plug**



**B (Serial Models) M12 12-Pin Socket**

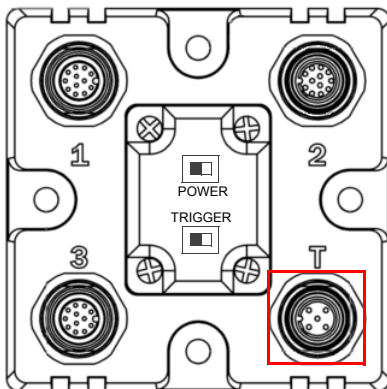


**B (Ethernet Models) M12 8-Pin Socket**

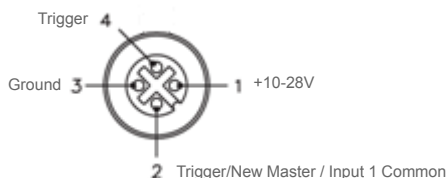


**P/M (All Models) M12 12-Pin Plug**

### QX-1 Interface Device (Top View)



**Connector T** on the QX-1 Interface Device is the trigger connector.  
**Connectors 1, 2, and 3** can be used to bus power and data as required by the application.



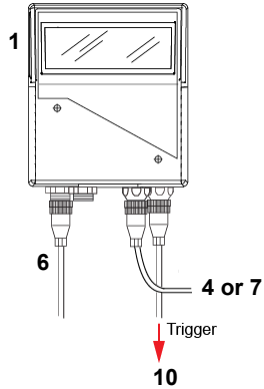
**Trigger Connector 4-Pin Socket**

*QX-870 Configuration*

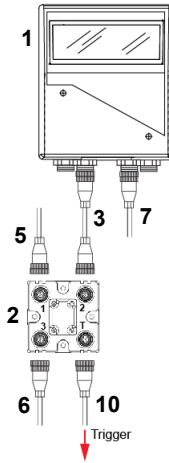
**Standalone Configuration**

**Important:** Configure Ethernet-enabled readers off-line and then connect to network when ready for dynamic use.

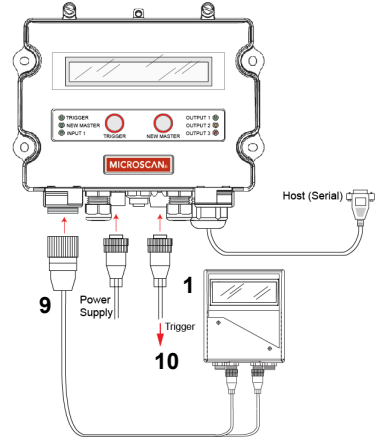
**Without QX-1**



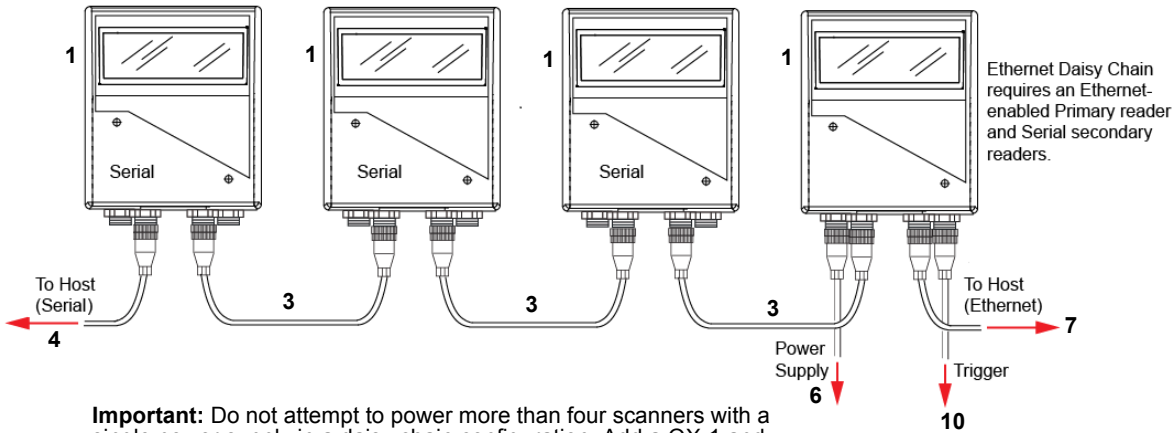
**With QX-1**



**Serial with MS-Connect 210**



**Daisy Chain Configuration**



Ethernet Daisy Chain requires an Ethernet-enabled Primary reader and Serial secondary readers.

**Important:** Do not attempt to power more than four scanners with a single power supply in a daisy chain configuration. Add a QX-1 and one power supply for every four additional scanners in the daisy chain.

**Multidrop Configuration**

**Multidrop Network with MS-Connect 5100**

