

# QX-870 INDUSTRIAL RASTER SCANNER CONFIGURATION GUIDE



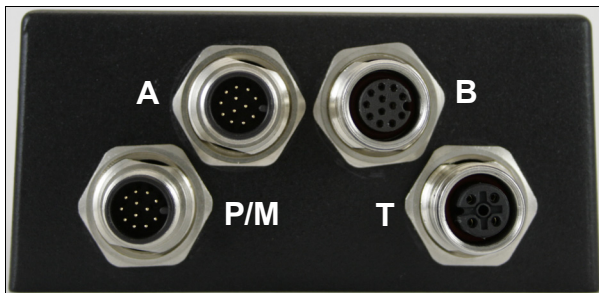
## Hardware Required

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 Plug to M12 12-pin Socket, 1 m	61-000162-01
4	QX Cordset, Host, Serial, M12 12-pin Plug to DB9, 1 m	61-000152-01
5	QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1 m	61-000153-01
6	QX Power Supply, M12 12-pin Socket, 1.3 m	97-000003-01
7	QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1 m	61-000160-01
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	61-000158-01
10	QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2 m	99-000020-02

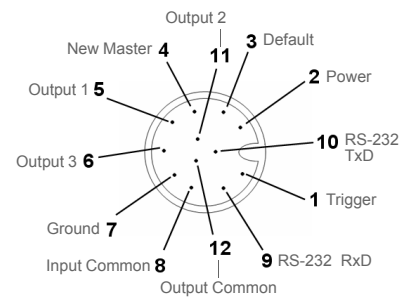
Note: Additional cordsets and accessories are available in the Microscan Product Pricing Catalog.

## Pin Assignments

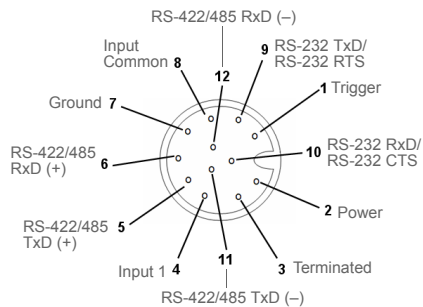
### QX-870 (Base View)



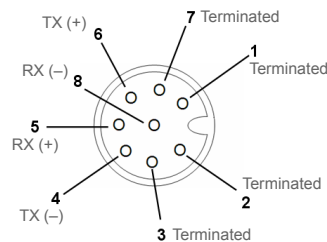
**A** is a serial M12 12-pin plug.  
**B** is a serial M12 12-pin socket or an Ethernet M12 8-pin socket.  
**P/M** is a serial M12 12-pin plug.  
**T** is a 4-pin Micro-Change socket (identical to the QX-1 trigger connector shown below).



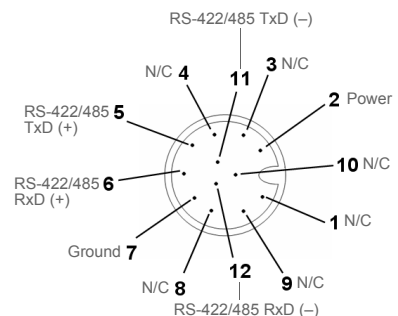
**A (Serial) M12 12-pin Plug**



**B (Serial) M12 12-pin Socket**

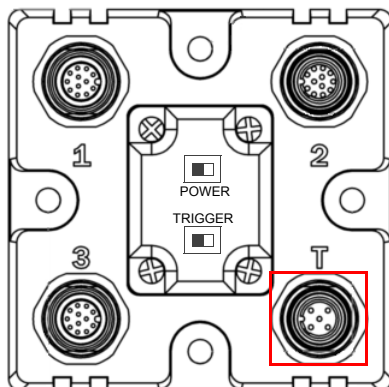


**B (Ethernet) M12 8-pin Socket**

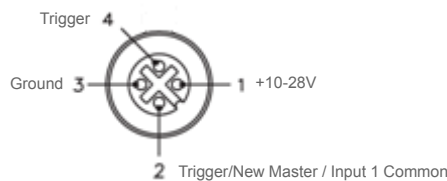


**P/M (Serial) M12 12-pin Plug**

### 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.



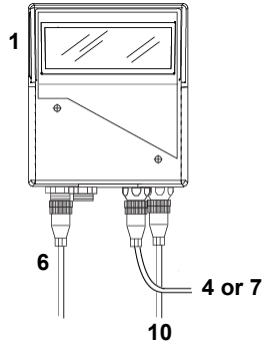
**Trigger Connector 4-pin Socket**

QX-870 Configuration

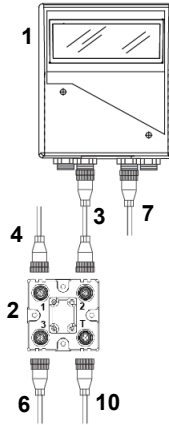
**Standalone Configuration**

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

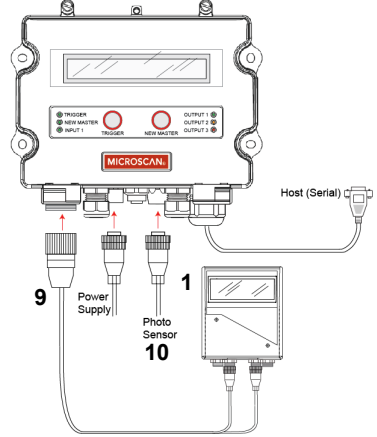
*Without QX-1*



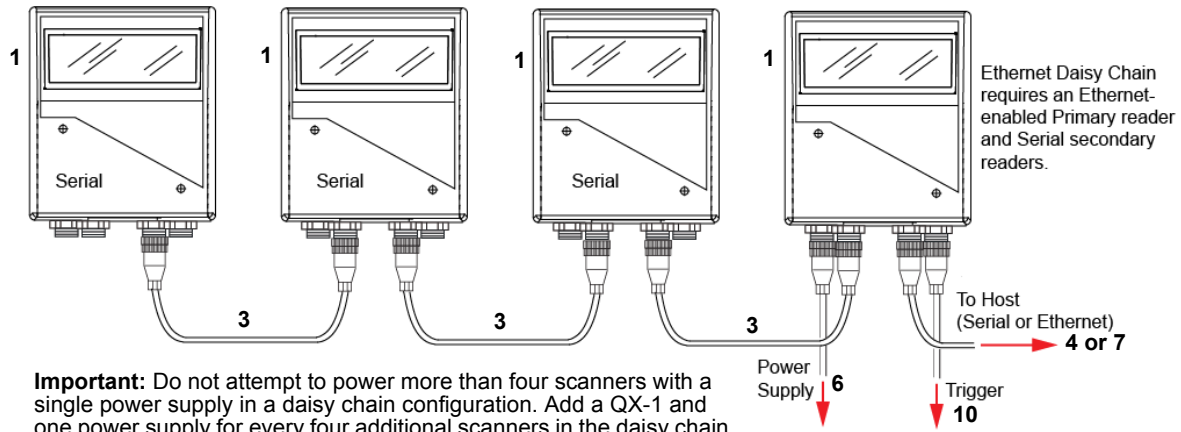
*With QX-1*



*Serial with MS-Connect 210*



**Daisy Chain Configuration**



**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*

