

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	Photo Sensor, VIS, NPN, Light On/Dark On	99-9000016-01

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

Pin Assignments

QX-870 (Base View)



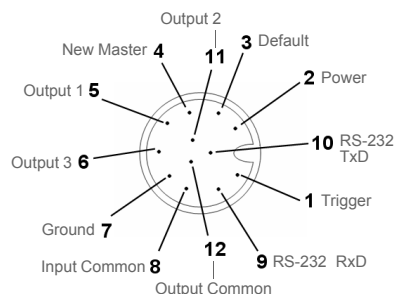
A is a serial M12 12-pin plug. It is the same for all models of the QX-870.

B is a serial M12 12-pin socket for serial models and an Ethernet M12 8-pin socket for Ethernet models.

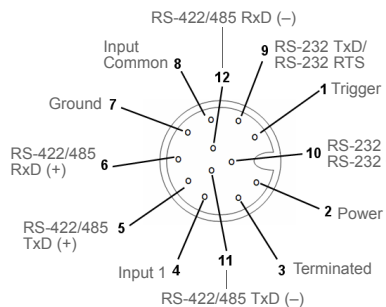
P/M is a serial M12 12-pin plug.

T is a 4-pin Micro-Change socket (identical to the QX-1 trigger connector shown below).

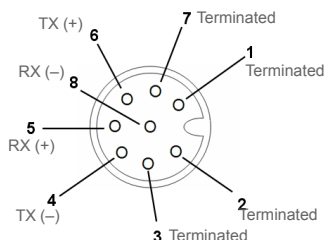
Important: See the *QX-870 Industrial Raster Reader User Manual* for a list of the wire colors that correspond to each pin.



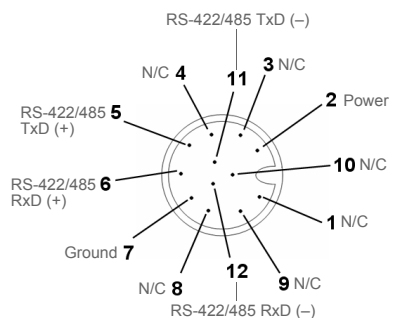
A (All Models) M12 12-Pin Plug



B (Serial Models) M12 12-Pin Socket

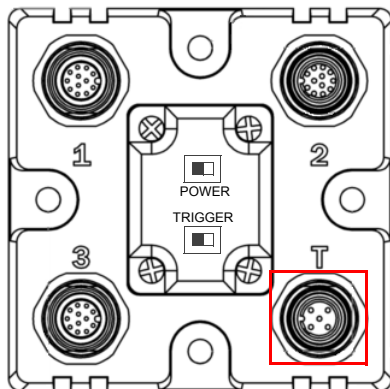


B (Ethernet Models) M12 8-Pin Socket



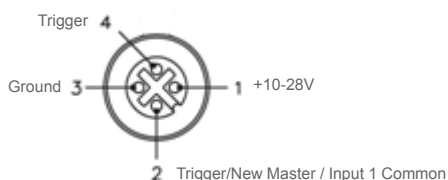
P/M (All Models) M12 12-Pin Plug

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.



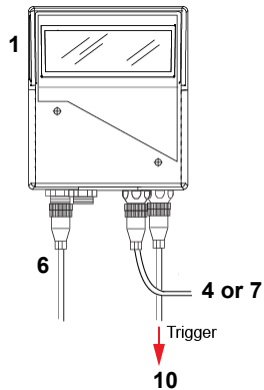
Trigger Connector 4-Pin Socket

QX-870 Configuration

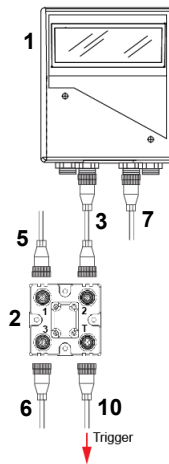
Standalone Configuration

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

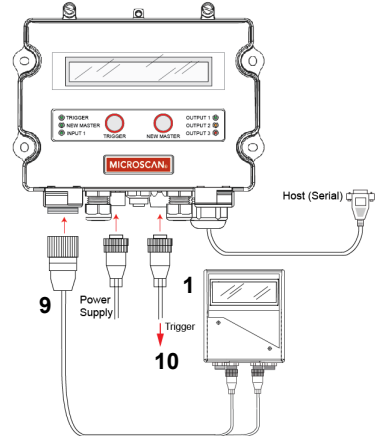
Without QX-1



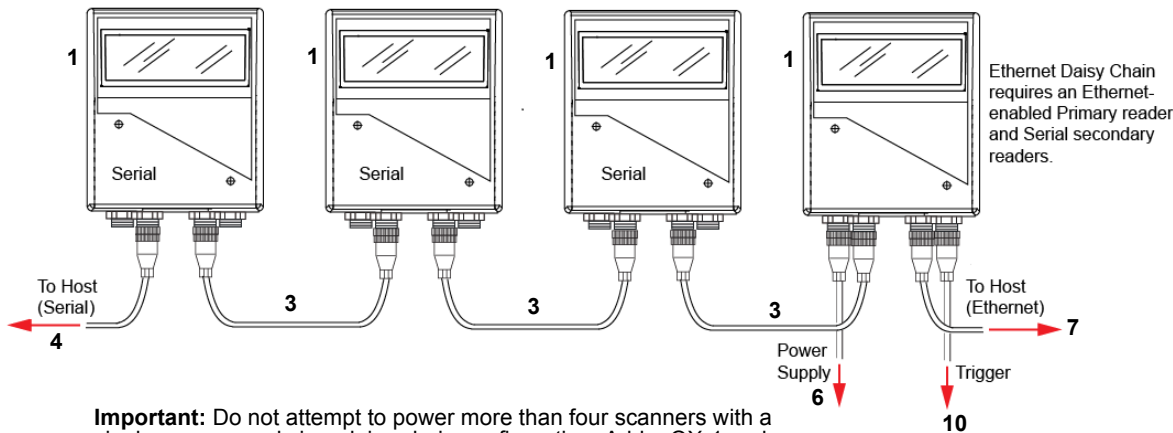
With QX-1



Serial with MS-Connect 210



Daisy Chain Configuration



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

