



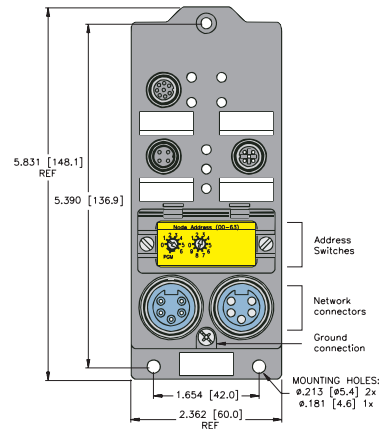
This station is designed specifically for use with 2-NC and 1-NO E-stop devices. It provides a convenient way to connect redundant circuits to the machine safety switches using off the shelf cordsets. The station monitors the machine safety switch state. The state of the switch is reported to the PLC via DeviceNet™.

The machine safety switch is connected via an eight pin **eurofast**® connector. Four pins are required to provide redundant safety switch circuits. Two pins are used to monitor the state of the machine safety switch. Two pins are used as an output circuit. This output can be set by the PLC on DeviceNet.

The auxiliary power is connected via four pin **eurofast** connector. Two of the pins are used to provide external power for the station's input and output circuits. Two of the pins are used to provide redundant safety switch circuits.

The FDNQ-ES22-T supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

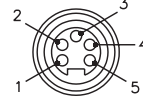
Dimensions:



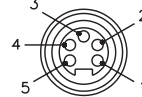
DeviceNet™

Style: 5-pin **minifast**®
Cordset: Bus Line use RSM RKM 579-*M
Tee: Bus Line use RSM 2RKM 57

1 = Shield
 2 = V+
 3 = V-
 4 = CAN_H
 5 = CAN_L



Female

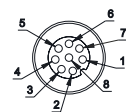


Male

Safety Switch

Style: 8-pin **eurofast**®
Cordset: RSC RKC E80-*M

1 = IN
 2 = OUT
 3 = AUX (+)
 4 = SC1
 5 = SC1c
 6 = SC2
 7 = SC2c
 8 = AUX (-)

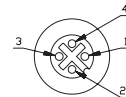


Female

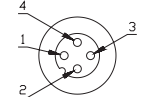
Auxiliary Power: E1 and E2 Circuit

Style: 4-pin **eurofast**®
Cordset: RSC RKC E40-*M

1 = AUX (+)
 2 = SC1
 3 = SC2
 4 = AUX (-)



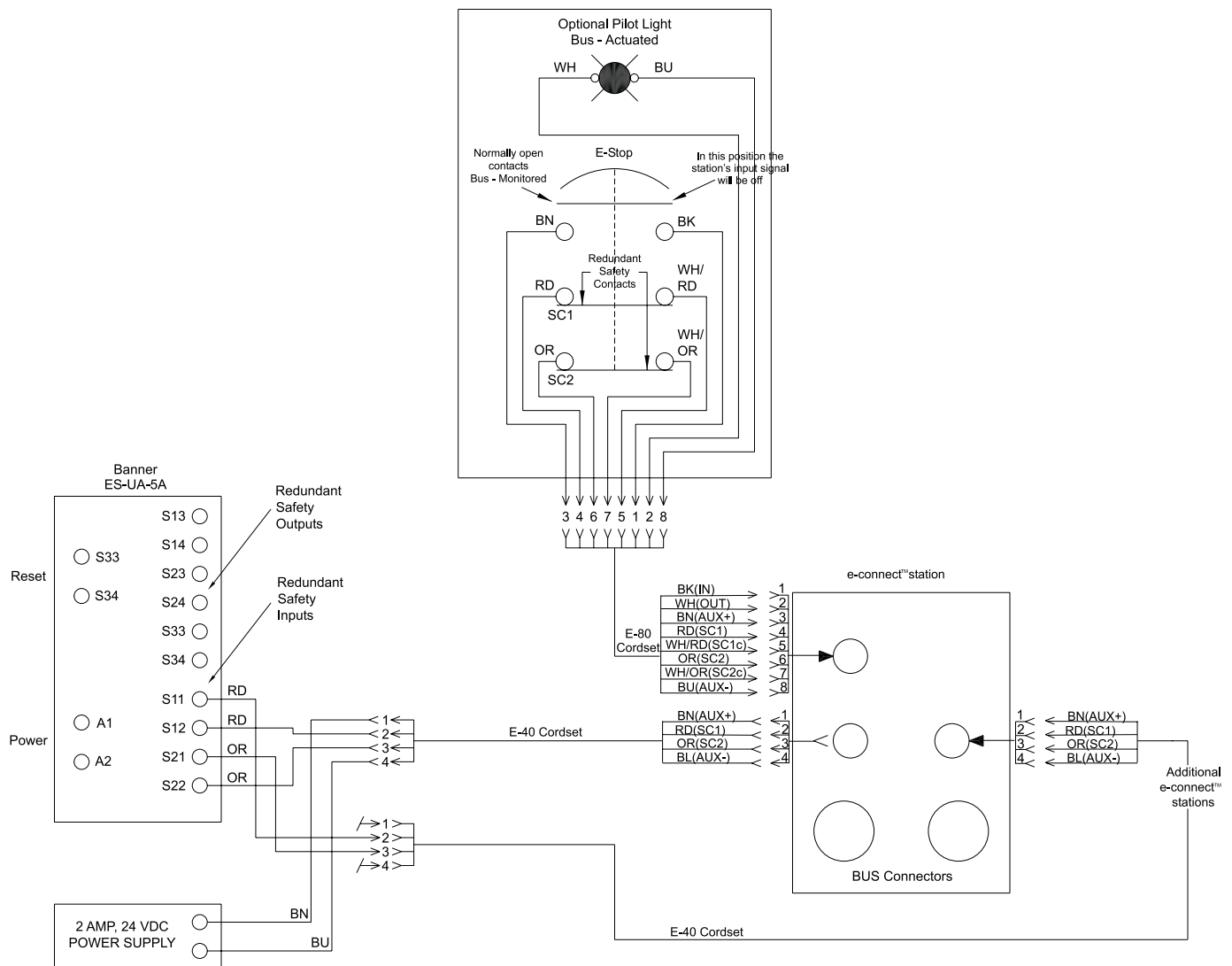
Female



Male

* Cable length in meters.

Wiring Configuration



The drawings depicted in this publication are general in nature and intended as guidelines. Each application is unique. It is the responsibility of the user to ensure all applicable jurisdictional codes and regulations are satisfied, and that installation and maintenance instruction are followed.



WARNING!

NEVER bypass or otherwise defeat the protective function of a safety switch. To do so may create an unsafe situation which could lead to serious injury or death.

FDNQ-ES11-T

Module Specifications:

Supply Voltage

Bus Power	11-26 VDC
Internal Consumption	<40 mA
Auxiliary Power	18-26 VDC

Input Circuits

Input Voltage (V+)	18-26 VDC auxiliary powered (optically isolated from bus)
Input Signal Current (Input)	Off <2 mA On = 3.0-3.4 mA at 24 VDC
Input Delay	2.5 ms

Output Circuits

Output Voltage	18-26 VDC auxiliary powered (optically isolated from bus)
Output Load Current	0.5 A per output
Maximum Switching Frequency	100 Hz

I/O LED Indications

Off = Off
Green = On

Aux Status LED

Off = No power
Green = Aux power present

Module Status LED

Green: working properly
Flashing green: detecting autobaud rate
Flashing red: missing aux power

Network Status LED

Green: established connection
Flashing Green: ready for connection
Flashing Red: connection time-out
Red: connection not possible

Adjustments

Address	0-63 via Rotary Switch, programmable
Data Rate	Autobaud

Housing

Material	Glass filled nylon with nickel plated brass connection
Enclosure	NEMA 1, 3, 4, 12, 13 and IEC IP 67
Operating temperature	-25° to 70°C (-13° to 158°F)

I/O Data Mapping

F0155/FDNQ-ES11-T.eds

Product Code: 7/2481 (9B1 hex)

Input Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	APS	-	-	-	-	-	-	-	I-0

Output Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	-	-	-	-	-	-	-	-	O-0

Abbreviations

I = Input Data (0= OFF, 1= ON)

ISS = Input Short Status (0=Working, 1=Fault)

IOS = Input Open Status (0=Working, 1=Fault)

IGS = Input Group Status (0=Working, 1=Fault)

O = Output Data (0=OFF, 1=ON)

OS = Output Status (0=Working, 1=Fault)

OGS = Output Group Status (0=Working, 1=Fault)

APS = Aux Power Status (0=OFF, 1=ON)