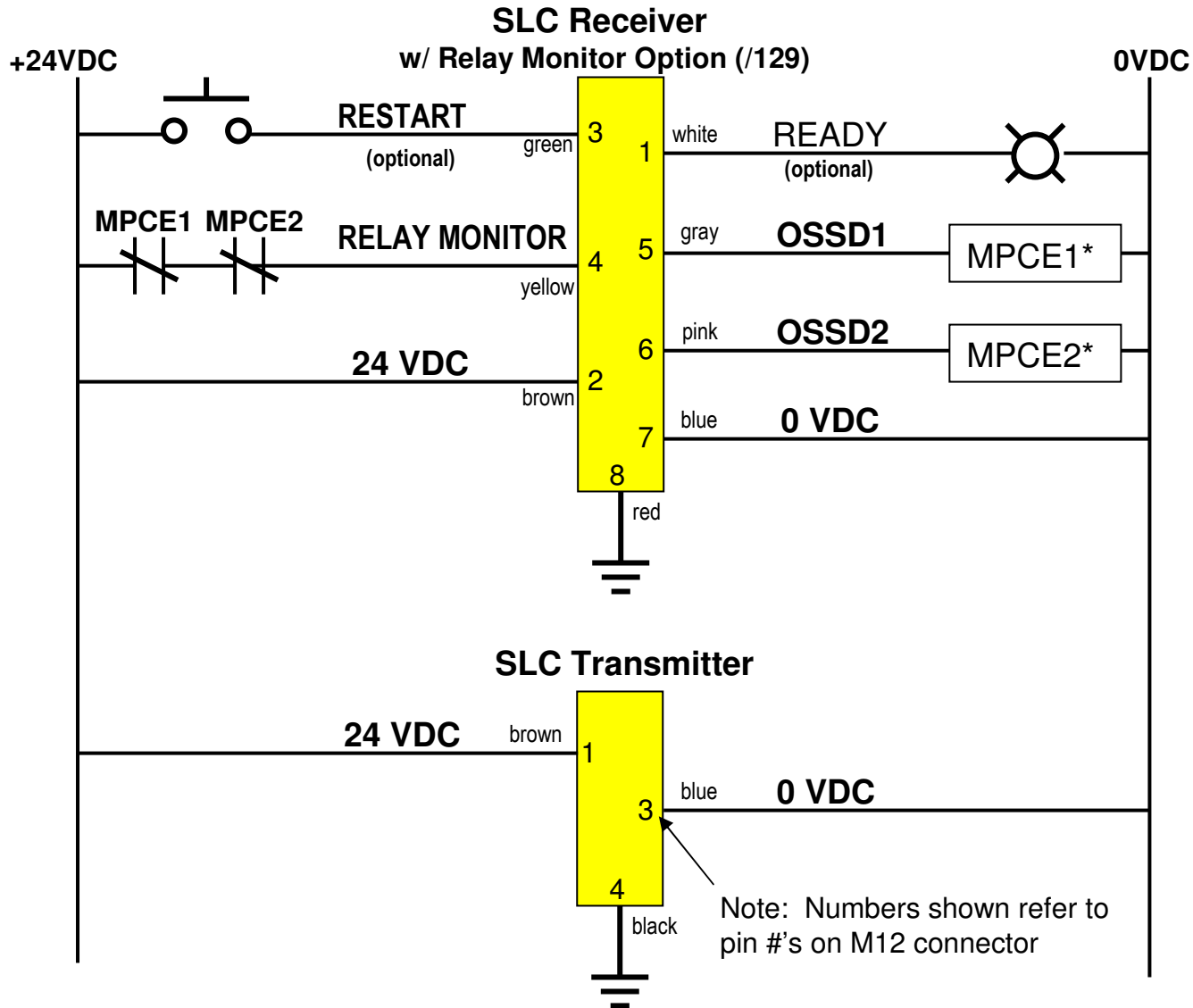


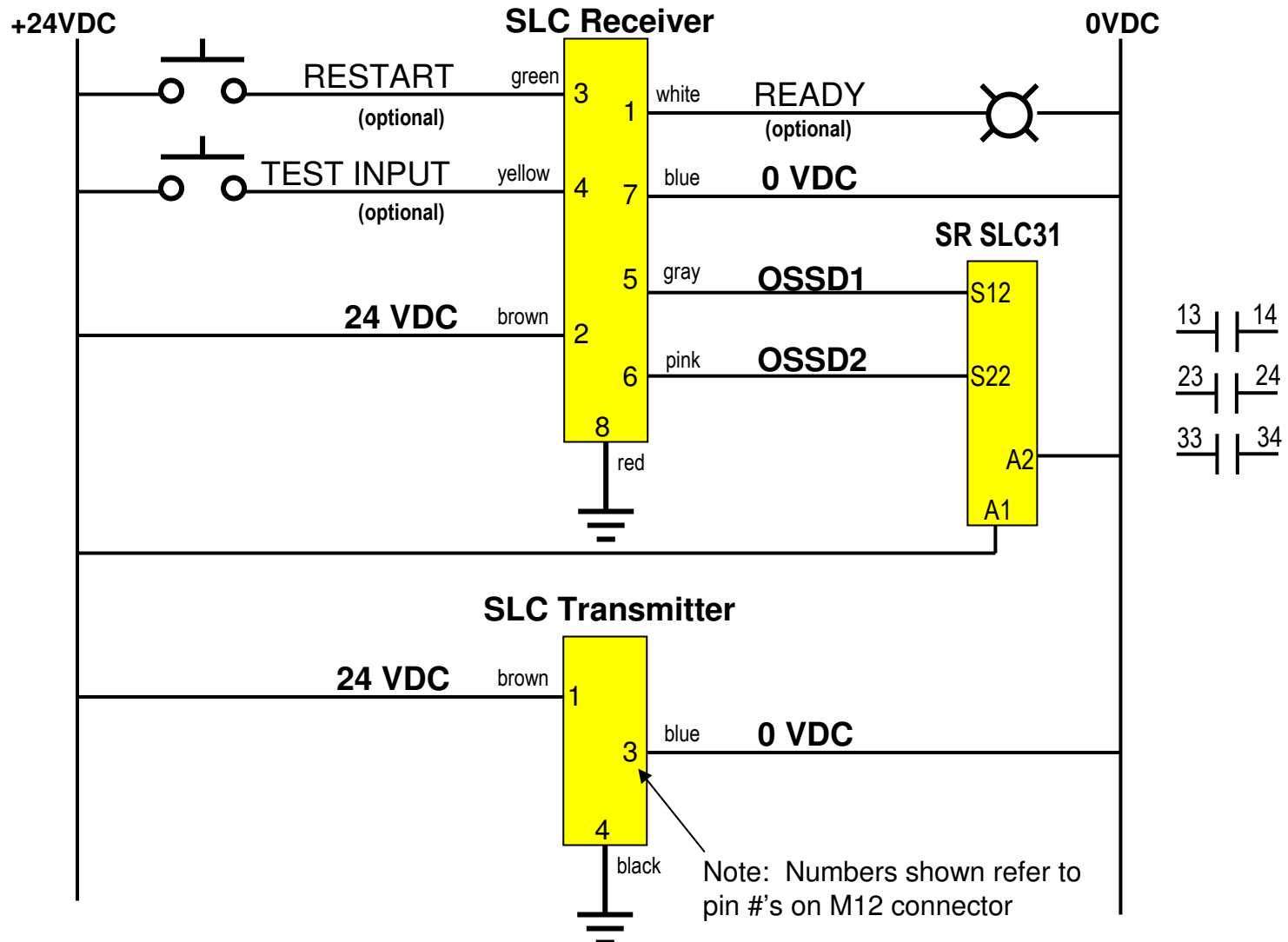
Typical SLC Wiring to MPCEs using Relay Monitor Option (/129)



* To meet Control Reliability and Category 4 requirements, MPCE1 and MPCE2 should be positively-driven (force-guided) contact devices. (MPCE = Machine Primary Control Element.) MPCE monitoring can be accomplished by wiring normally-closed contacts from each device in series into the Relay Monitor input of the light curtain.

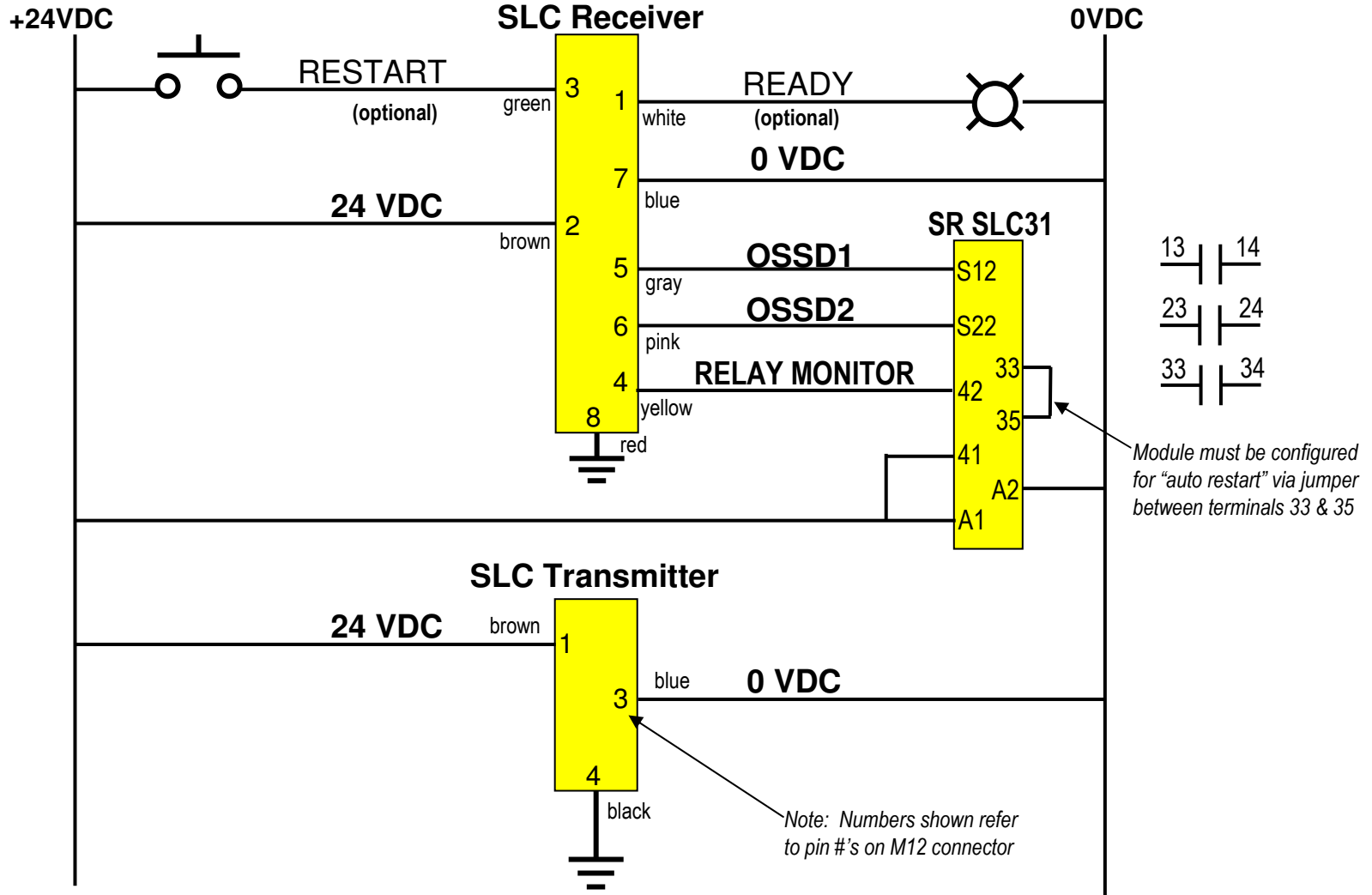
Typical SLC Wiring to SR SLC31 Monitored Safety Relay

(SLC Relay Monitor Option not required)



* The SR SLC31 is a self-monitored safety relay module, thus SLC Receiver relay monitoring (Option “/129”) is not necessary to meet Category 4. The SR SLC31 has internally redundant and monitored circuitry -- should a fault occur within its logic or safety outputs (including a welded contact), it will fail to safety (outputs OPEN) and prevent subsequent operation until the failure is corrected.

Typical SLC Wiring to SR SLC31 Monitored Safety Relay (using SLC with Relay Monitor Option /129)



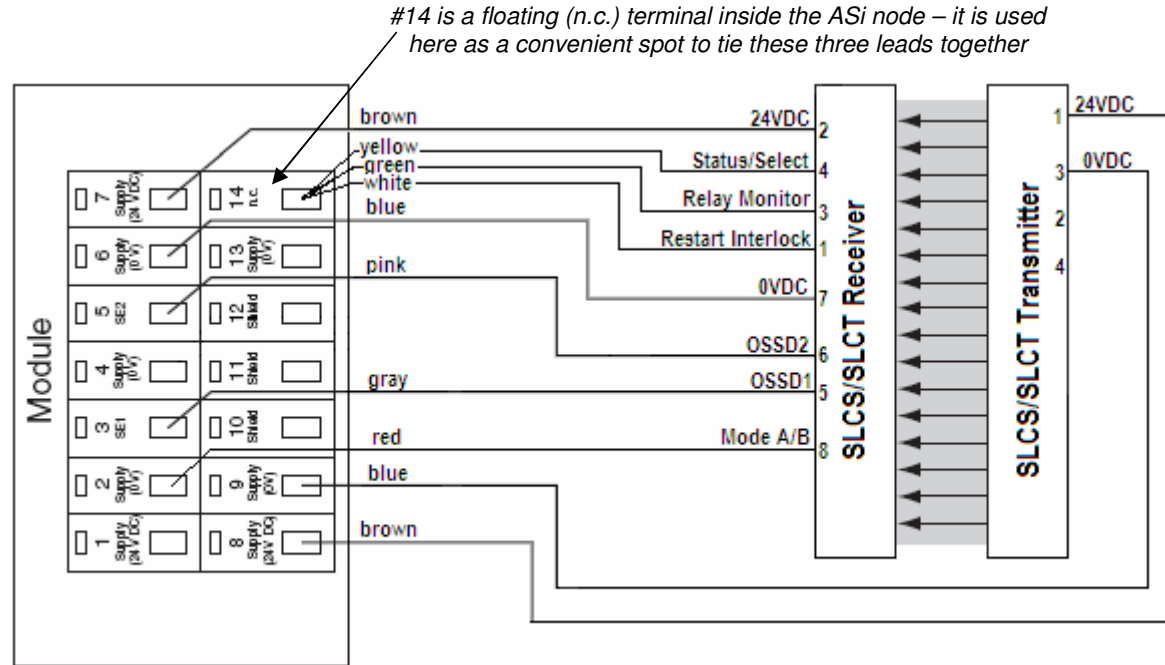
• The SR SLC31 is a self-monitored safety relay module, thus SLC Receiver relay monitoring (Option "/129") is not necessary to meet Category 4. The SR SLC31 has internally redundant and monitored circuitry -- should a fault occur within its logic or safety outputs (including a welded contact), it will fail to safety (outputs OPEN) and prevent subsequent operation until the failure is corrected.

• If SLC light curtains WITH Option /129 are being used, the RELAY MONITOR input (Pin 4) on the SLC Receiver must be connected to the NC status outputs from the SR SLC31 module as shown above. Module must also be configured for "auto restart" via jumper between terminals 33 and 35.

SLCS/SLCT is configured for

- Auto Restart
- Relay Monitor Disabled
- Beam Code "A"

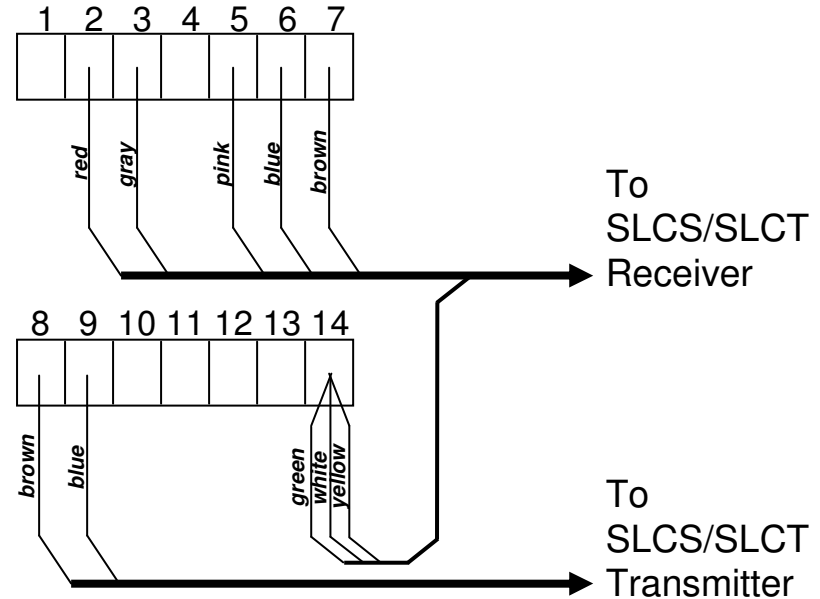
Wiring into the
VA-2E-G4-SE
Safety Node:



SLCS/SLCT is configured for

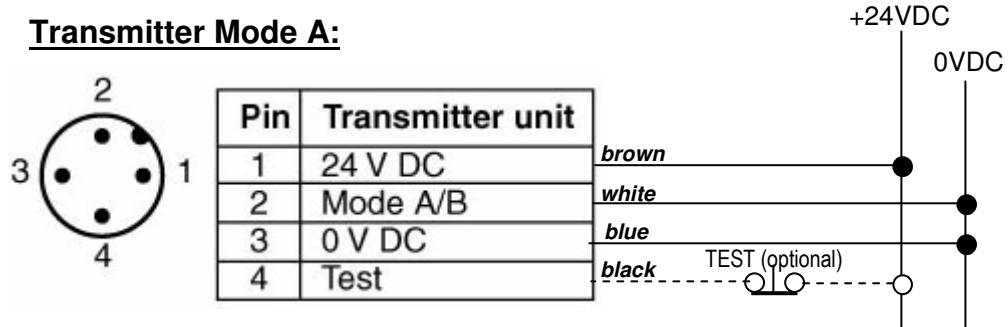
- Auto Restart
- Relay Monitor Disabled
- Beam Code "A"

Wiring into the
Terminal Strip on the
ASi Demo Case:

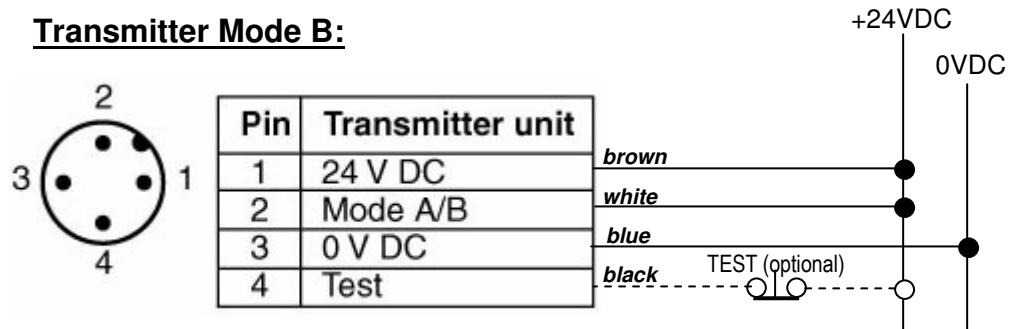


SLCS and SLCT Optional Feature Selection – Wiring Examples:

Transmitter Mode A:

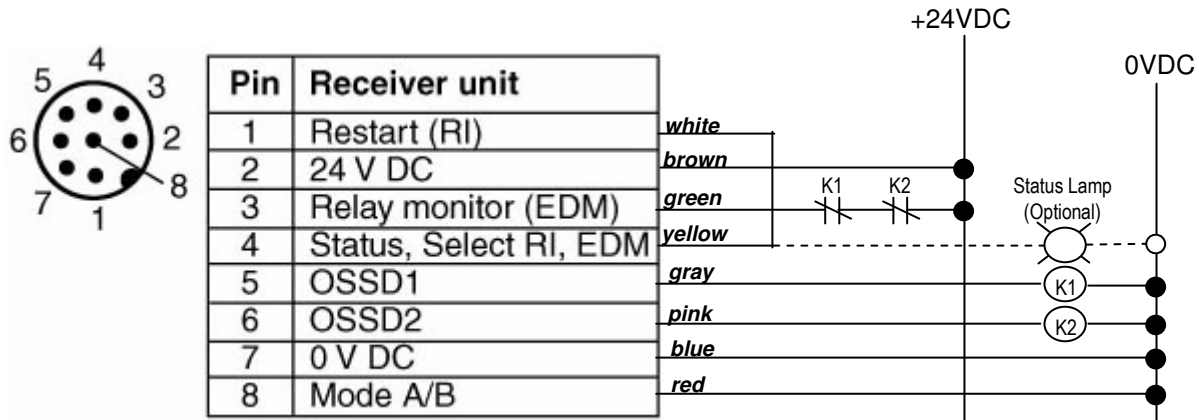


Transmitter Mode B:

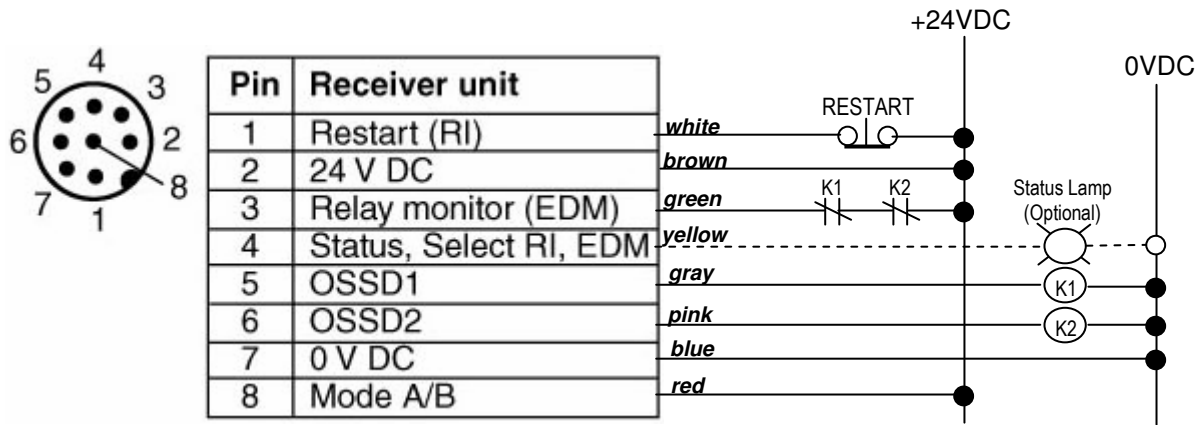


SLCS and SLCT Optional Feature Selection – Wiring Examples:

Receiver, Auto Restart, RM Enabled, Mode A:

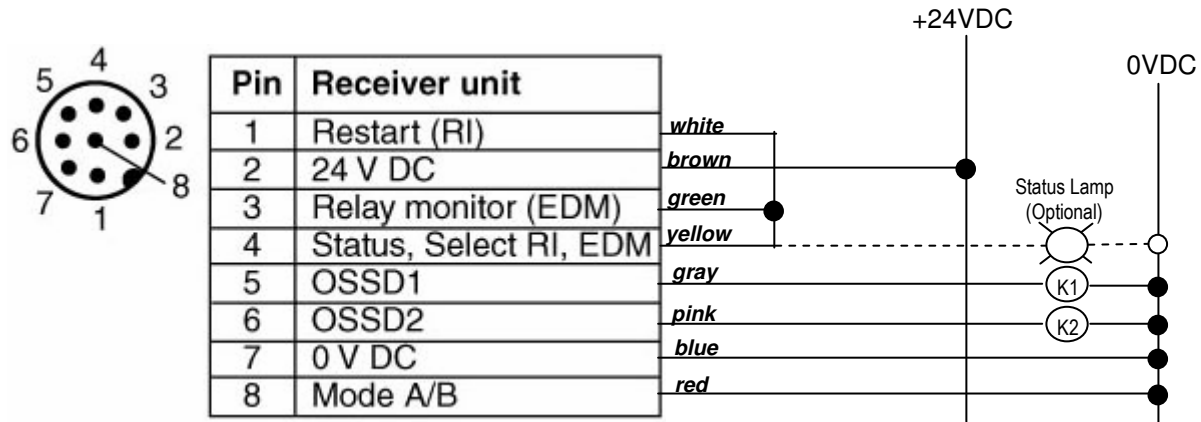


Receiver, RI Enabled, RM Enabled, Mode B:



SLCS and SLCT Optional Feature Selection – Wiring Examples:

Receiver, Auto Restart, RM Disabled, Mode A:



Receiver, RI Enabled, RM Disabled, Mode B:

