

Further brackets may be obtained as an option, to offer the possibility of mounting on the side or in the center:


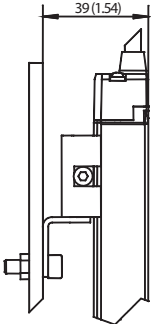

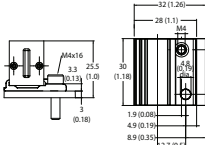

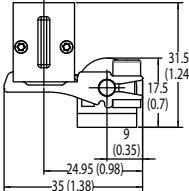

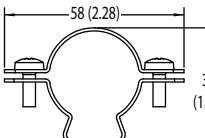
		445L-AF6143 Adjustable 180° bracket kit (two per kit) supplied with each pair
		445L-AF6145 Flat bracket kit (two per kit) Two kits required per pair
		445L-AF6149 Adjustable flat bracket (two per kit) Two kits required per pair
		445L-AF6160 IP69K mounting bracket kit (two kits per pair supplied with each pair)

Table 4

Electrical Installation

Connections

The connection of a GuardShield Micro 400 to a machine controller must occur using an MSR41 or MSR42 Series safety controller module. Only prefabricated cable (445L-AC8xxx) provided by Rockwell Automation may be used between the light curtain and controller (Table 5).

The Micro 400 requires two patchcords, one for the transmitter and one for the receiver. The M12 8-pin connector is used for connecting to the light curtain, while the RJ45 connector is plugged to the controller. M12 to M12 patchcords are used for extending the cable, especially between cascades of the Micro 400 light curtain.

The connection cables are offered with color coded rings attached to each cable. Remove one color ring from the cable as necessary. The following color code is defined:

- White – Transmitter (Tx)
- Blue – Receiver (Rx)

Connection:

Description [m (ft)]	Cat. No.
Patchcord, PVC jacket, 1 (3.3) M12 to RJ45	445L-AC8RJ1
Patchcord, PVC jacket, 2 (6.6) M12 to RJ45	445L-AC8RJ2
Patchcord, PVC jacket, 3 (9.8) M12 to RJ45	445L-AC8RJ3
Patchcord, PVC jacket, 5 (16.8) M12 to RJ45	445L-AC8RJ5
Patchcord, PVC jacket, 8 (26.2) M12 to RJ45	445L-AC8RJ8

Extension:

Description [m (ft)]	Cat. No.
Patchcord, PVC jacket, 1 (3.3) M12 to M12	445L-AC8PC1
Patchcord, PVC jacket, 3 (9.8) M12 to M12	445L-AC8PC3
Patchcord, PVC jacket, 5 (16.8) M12 to M12	445L-AC8PC5

Table 6: Available cable types

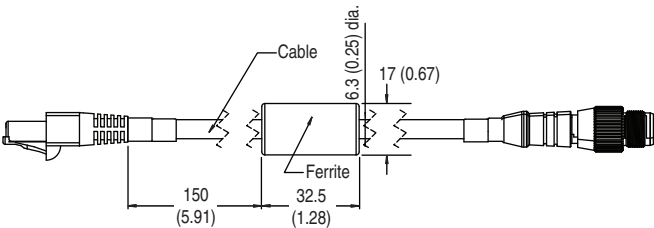


Figure 12: RJ45 connector/M12 8-pin connector male [shielded cable], connection cable from MSR41 or MSR42 control unit to the light curtain

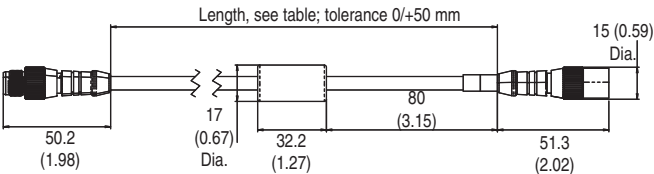



Figure 13: M12 connector (male)/M12 8-pin connector (female) [shielded cable], extension connection cable or to use between light curtain cascades.

Power supply, inputs, safety outputs and status outputs are connected to the terminal block of the MSR41, MSR42 controller or a MSR45E (see wiring diagrams, figures 14 and 15 on page 15).

The interfacing of the light curtain with the machine control has to be control reliable, i.e. a correct interface with a safety PLC or safety relays with positive guided relay contacts.



ATTENTION

The safety devices and the interconnection to the machinery have to comply with the basic safety requirements as mentioned in the current regulations and standards.

Direct interfacing of a safety light curtain to machine control that does not meet the necessary safety integrity level, i.e., use of general purpose PLCs or general purpose relays may result in injury to personnel.