

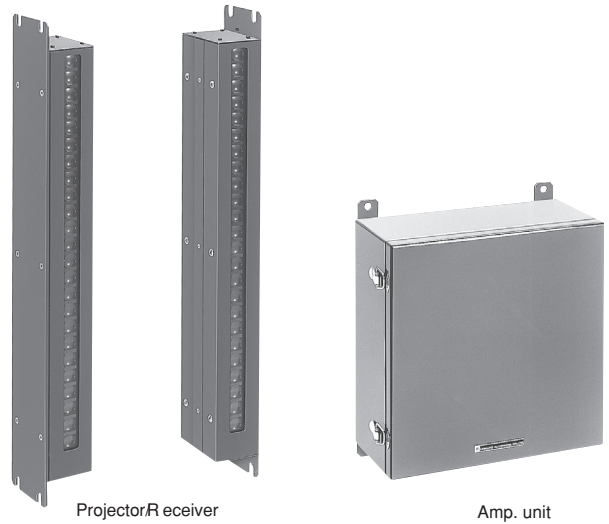
Welding Point Detector

PH-B

Detecting punching hole at welding point

This is a welding point detector. This is composed of projector, receiver and amplifier and detects punching hole at the welding point of steel plate which passes between projector and receiver.

- It can detect punching hole with ϕ 8mm or more.
- It can detect one-hole and two-hole by one unit and executes the output respectively.
- Projector provides monitoring function for light-emitting state.
- It can check the operation of receiver with external checking input simultaneously.
- It can check the light amount margin of projector with safety function.



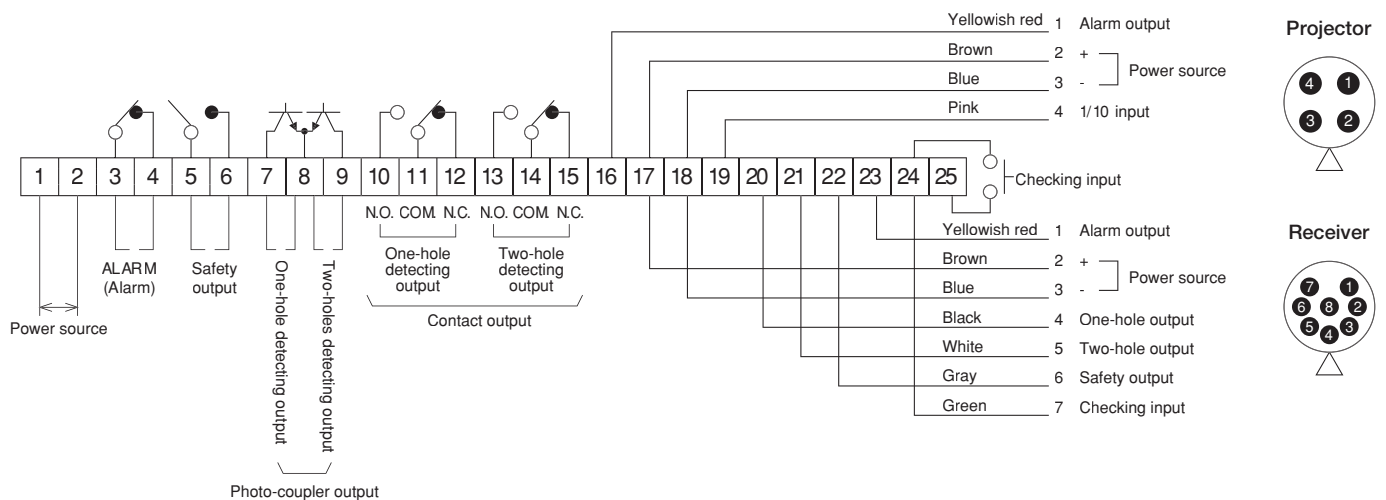
Specifications

Type	Through-beam type
Model	Set model No.: PH-BS-10(Projector: PH-BP-10 · Receiver: PH-BR-10) Amp. unit: PH-BA-10
Power source	100 to 220VAC(10%, -20% 50/60Hz)
Power consumption	30VA or less
Setting distance	250 to 1,000mm(Recommended value 500mm)
Available detecting width	470mm
Detecting hole diameter	ϕ 8 or more, or punching hole with 6×10mm or more
Line speed	750m/min. (In case of punching hole diameter ϕ 8.)
Response time	Contact output: 30msec, Photo-coupler output: 3msec
Operating mode	Light-ON
Control output (One-hole/two-hole detecting output)	1C relay(250VAC 5A $\cos\phi=1$) Photo-coupler(120V, 100mA)
Alarm output*1	1b relay(250VAC 5A $\cos\phi=1$)
Safety output*2	1a relay(250VAC 5A $\cos\phi=1$)
Connection	Projector/receiver: metal connector type(cable length 5m), amplifier: M4 screw terminal
Indicators	Projector: each lamp for power/operation Receiver/Amp. unit: each lamp for power/operation/alarm/safety
Ambient temperature	-25 to +55°C
Ambient humidity	85%RH or less(not icing)
Case	Steel plate(SPCC)
Weight	Projector/receiver: each Approx. 4kg, Amplifier unit: Approx. 9kg

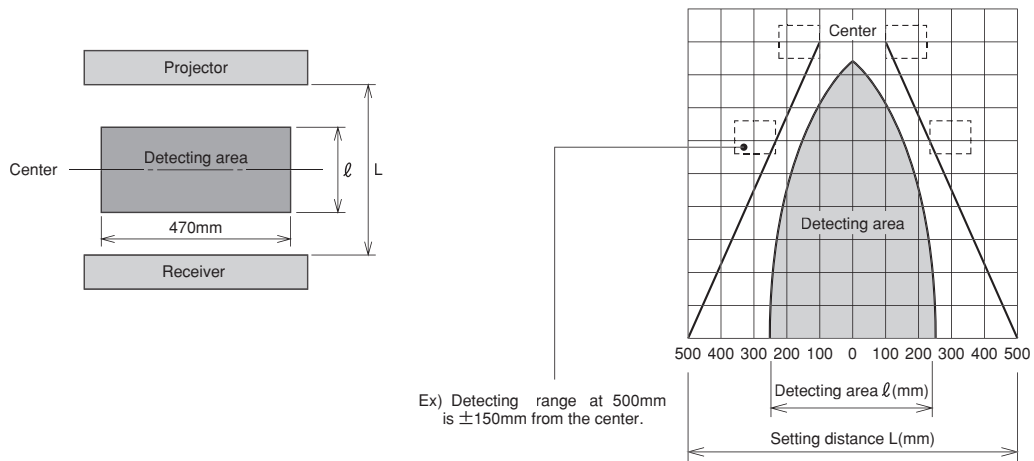
*1. When stopping the emission of projector because of power failure or trouble of circuit or checking the operation of receiver by external checking input, it executes output if there are some troubles on receiver.

*2. Even if emitting amount of projector is getting 1/10, it executes output when receiver has complete light-entering and light-receiving margin is enough.

Connection



Setting distance and detecting area



External dimensions

