ST-D.O.T.TM

ST-DOT-120 Opto Amplifier Installation guide

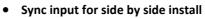


For use with:



R15 / M15 receivers and T15 Photo transmitter

- Up to 15m sensing range with standard M/R sensors •
- DIN rail mounting
- Terminal block wiring
- Relay changeover contact rated 8A/250VAC





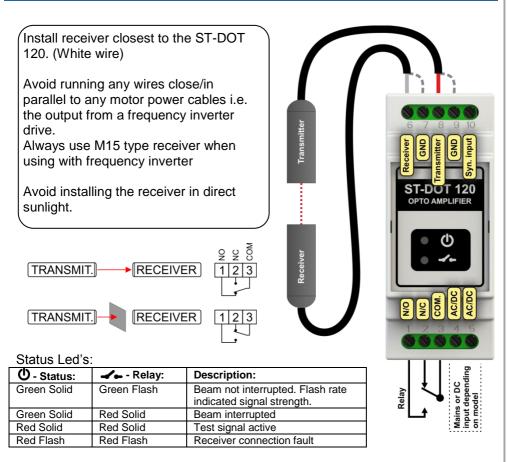
© INTRODUCTION AND WIRING

Introduction:

ST-DOT-120 is an opto-electronic amplifier module for DIN-rail mounting for use with DOT transmitters and receivers.

It is a single channel amplifier with relay output made for a variety of supply voltages. It is quick and easy to install. Just connect power, transmitter, receiver and output and it is ready to operate. When transmitter and receiver do see each other the relay will be standing N.O. When the light is interrupted the relay will switch to N.C.

Wiring:



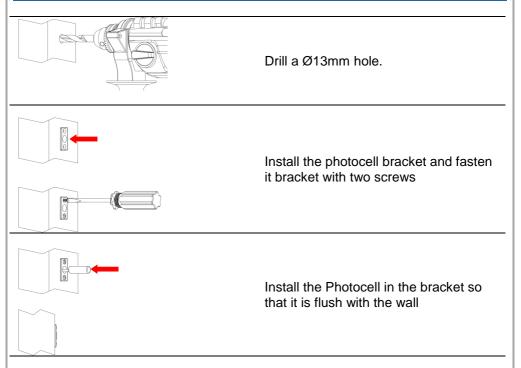
ALIGNMENT AND INSTALLATION

Alignment of photocells

During installation make sure that the transmitter and receiver are **horizontally** aligned as illustrated below. The photocells can work with a slight offset (depending on the distance in-between) but this is not recommended as the sensitivity is affected.

The LED - Relay State will flash green when signal is OK and red if not OK. The green led will flash faster the more signal there is present.

Installation of photocells



Installing side by side – (Sync function)

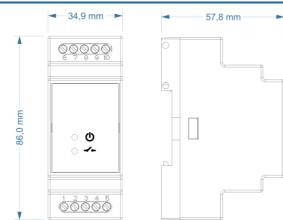
If you install 2 set close to each other cross talk may occur. This can be solved by using the SYNC input terminal 10.Connect the transmitter signal (terminal 8) from the master to the slave SYNC input and connect a link between 0V on the two DOT 120 modules (terminal 9).

F TECHNICAL DATA

Troubleshooting:

 In case the photocells does not work as intended during day check if the receiver is exposed to direct sunlight.
If this is the case try swapping the transceiver and receiver.

Mechanical dimensions:



Technical data:

ConsumptionAC-versions 1.5 VA, DC versions max. 70 mA.Sensing range with DOT T15 and R15 / M15 sensors0-15 m, automatic gain control.WiringTerminal blocks.Operation modeLight activated, - see function below.OutputRelay changeover contact rated 8A/250VAC.Response time25 ms
M15 sensors 0-15 m, automatic gain control. Wiring Terminal blocks. Operation mode Light activated, - see function below. Output Relay changeover contact rated 8A/250VAC.
Operation modeLight activated, - see function below.OutputRelay changeover contact rated 8A/250VAC.
Output Relay changeover contact rated 8A/250VAC.
Response time 25 ms
Switching frequency Max. 10 Hz.
U - Status - Relay State
Indicators Green = OK / Red = Test active Green = Beam not broken (N.G. Green Flashing = Signal Strem Red = Beam broken (N.C.)
Red flash Red flash = Connection Error
Operating temperature -20 - +50°C
Housing, dimensions and weight Grey polycarbonate IP50, 35x86x58 mm