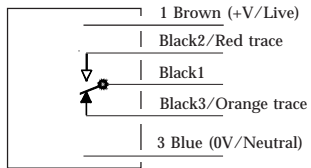
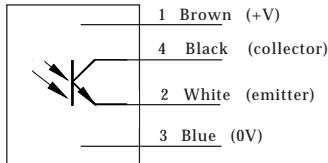


CONNECTIONS

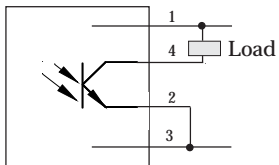


Contact shown in de-energised position

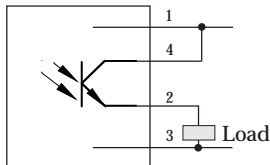
PD2BR/PD2BR 24V dc



PD2BO/PT2BO



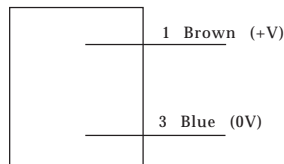
NPN



PNP

TYPICAL CONNECTIONS

With units connected as shown, the output will be on with beam made. If the supply wires (only) are reversed, the output will be on when beam broken.



PL2B

Guarantee

The equipment is covered by a 12 months guarantee from the date of shipment. Any faults arising due to faulty materials or workmanship, within the guarantee period, will be corrected free of charge providing the equipment is returned to us carriage paid.

Certificate of Conformity

The equipment covered by these instructions has been manufactured and tested in accordance with our quality assurance procedures and conforms fully with our published specification.

Health and Safety

Provided that the equipment covered by these instructions is installed and operated as directed, it presents no hazard and conforms fully to health and safety regulations.



THIS PRODUCT CONFORMS TO THE REQUIREMENTS FOR CE MARKING

When this product is incorporated into other machinery or apparatus, that apparatus must not then be put into service (in the E.C) until it has been declared in conformity with the appropriate E.C Directive/s.

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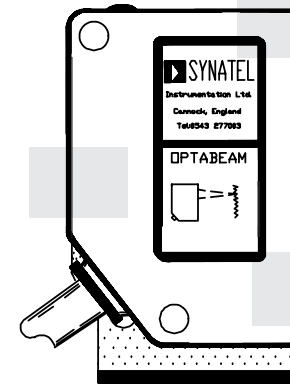
Walsall Road, Norton Canes, Cannock, Staffs. England. WS11 9TB.
Tel: (01543) 277003 * Fax: (01543) 271217

641-003F

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SYNATEL
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OPTABEAM
SERIES



OPERATING
INSTRUCTIONS

Introduction

Optabeam is available in retro-reflex or through beam versions. The retro reflex is designed to work at a maximum distance of 4m, with a choice of units covering a voltage range of 10V to 30V dc, fixed 24V dc or 90V to 260V ac.

Through beam units work on 10-30V dc supply and have a maximum operating range of 15 metres.

Brackets and reflectors are included as standard, where required, to provide a complete system.

Installation/Commissioning PD2BR/PD2BO

Mount the unit in a position with minimum vibration. Ensure that the reflector is perpendicular to the sensing face and is within the stated 4m range.

Connect the unit as shown in appropriate diagram.

For the ease of alignment, a beam made LED is mounted on the top of the unit. To give optimum alignment, partially mask the reflector and align. Now remove the mask to ensure optimum alignment. Ensure all mountings are securely fastened. Recheck alignment of the unit.

Installation/Commissioning PT2BO/PL2B

Emitter and receiver should be mounted in a position with minimum vibration, facing each other and within operating range. Ensure that nothing obscures beam path.

Connect as shown in appropriate diagram and check that output switches when object passes through beam path and re-makes when object has passed. If in doubt, re-check alignment.

Overall Specifications/Variations

	RETRO-REFLEX			THROUGH BEAM	
	PD2BR	PD2BR 24V dc	PD2BO	PL2B	PT2BO
10-30V dc			✓	✓	✓
24V dc		✓			
90-260V ac	✓				
Supply Rating	5VA	← 40mA →		30mA	40mA
Operating Range (Max.)	← 4 Metres →			← 15 Metres →	
IP Rating	← IP67 →				
Cable	← 2 Metres, Multicore →				
Light Source	← Infra Red →				
Max Output Speed	← 50Hz →		← 1KHz →		
Relay Output	✓	✓			
Optoisolated Transistor Output			✓		
Output Rating	← 3A 240V ac →		100mA 30V dc		

NOTE: Output on through beam Optabeam refers to PT2BO only. PL2B has no output.