TAKEX
TAKENAKA SENSOR GROUP

TAKEX - F80 FIBRE AMPLIFIER WITH LARGE DIGITAL DISPLAY AND LONG DISTANCES

F80R-PNP
FIBRE OPTIC AMPLIFIER RED PNP

- Large digital display
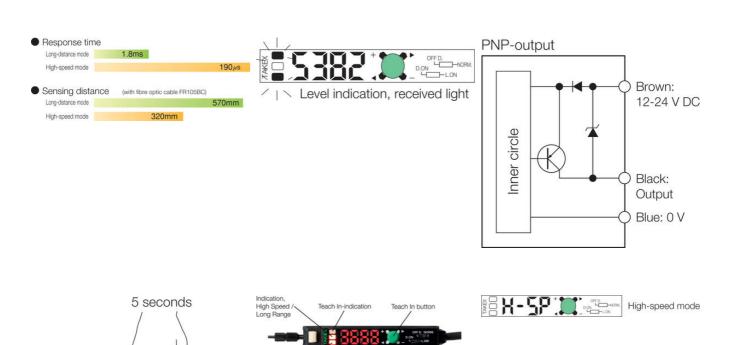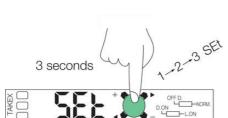- Long distances/fast reaction time
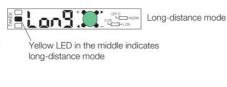- Teach In

PRODUCT DESCRIPTION

The F80 amplifier has a large, clear display which facilitates the reading of incoming light. On this amplifier, you can choose whether you want long detection distances or a fast reaction time. Reading takes place with Teach In via the green button on the amplifier. You also have the option of manually changing the value on the amplifier to the level at which you want your output signal.

SPECIFICATIONS

Approvals	CE
Electrical connection	Cable 2 m
Function	Dark On/Light On
IP Class	IP40
Light / Dark Switching	Yes
Light type	Red LED
Output	PNP
Output current max	0,1 A
Photocell technology	Fiber amblified
Power consumption max	0,032 A
Reaction time	0,19 ms
Temperature range from	-25 °C
Temperature range to	55 °C
Voltage DC max	24 V
Voltage DC min	12 V

● Response time
Long-distance mode — 1.8ms
High-speed mode — 190μs

● Sensing distance (with fibre optic cable FR105BC)
Long-distance mode — 570mm
High-speed mode — 320mm

5382
Level indication, received light

PNP-output

Inner circle

Brown: 12-24 V DC

Black: Output

Blue: 0 V

5 seconds

SEt

Indication, High Speed / Long Range

Teach In-indication

Teach In button

8888

Output Indicator

Indication of received light

Light / dark function

OFF D. NORM.
D.ON L.ON

H-SP
High-speed mode

3 seconds

SEt

1→2→3 SEt

Long
Long-distance mode

Yellow LED in the middle indicates long-distance mode

SEt

3 seconds

SEt

Auto

147
Level indication, received light

Receiver

Transmitter

10
4   62   3
32
8 12
3
21   16
11.5   36.5
2—φ3.2 hole
Mounting bracket

21   16
2—φ3.2×5.2 oval hole