

### **FFI SYSTEM**

# OPTICAL REPEATER

DATA SHEET PSP

This is an optical signal amplifier of indoor dustproof structure which is used to connect between an optical star coupler and receiving section when the transmission distance between the FFI system field instrument and the receiving section is long.

### **SPECIFICATIONS**

### Functional specifications

Input/output signal:

Single wire bidirectional optical digital

signal

No. of channels: Either 1 or 2 optical star couplers con-

nectable

Transmission distance:

5.2km max. between field instrument and receiving section (10.2km max. when two optical repeaters connected); 0.5km max. between optical star coupler and optical repeater (refer to "System configuration")

diagram")

Power supply: 24V DC (20 to 30V DC)

Power consumption:

Approx. 0.3W

Ambient temperature:

-10 to 50°C

Ambient humidity:

90% RH or less

Explosionproofing:

JIS i3aG4 i2G4 intrinsically safe explosion sionproofing; zener barrier for 24V DC power supply must be ordered separately

### Construction and material

**Enclosure:** Steel plate dustproof case (indoor type)

Finish color: Silver (melamine baked finish)

Outer dimensions (H x W x D):

180 x 300 x 70mm

Mass(weight): Approx. 2.5kg

Mounting method:

Surface mounting (using screws)

Input/output connection:

Fuji's specified optical cable (to be prepared separately); connection by means

of optical connector

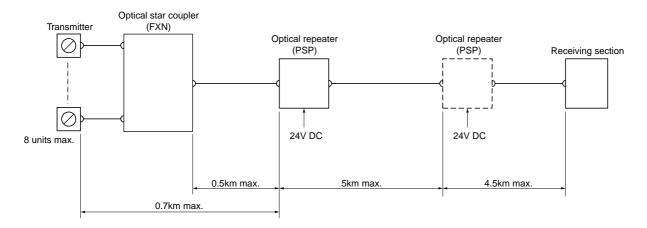
Power supply terminals:

M4 screw

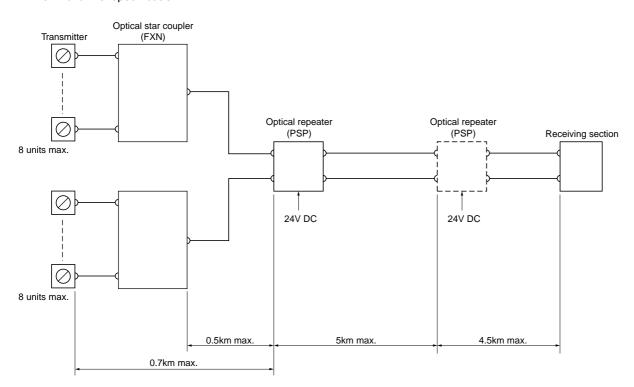


## SYSTEM CONFIGURATION DIAGRAMS

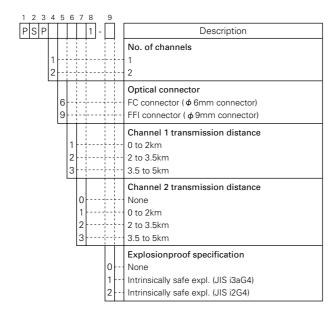
### 1. With 1 channel specification



### 2. With 2 channel specification



### **CODE SYMBOLS**



### SCOPE OF DELIVERY

Optical repeater (excluding optical cable and optical connector)

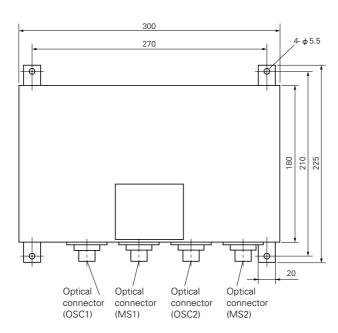
### **RELATED DEVICES**

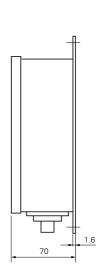
- Hand-held communicator (data sheet No. EDS 8-44)
- Optical star couple (Data sheet No. EDS 8-48)
- Master station (Data sheet No. EDS 11-86)
- Zener barrier (Data sheet No. EDS 13-9)

### **ORDERING INFORMATION**

- 1. Product name
- 2. Type
- 3. Transmission distance
- 4. No.of channels
- 5. With/without explosionproofing

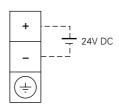
### **OUTLINE DIAGRAM** (Unit:mm)





# Cable connection (\$\phi 27)

### **EXTERNAL CONNECTION DIAGRAM**





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\*Before using this product, be sure to read its instruction manual in advance.

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