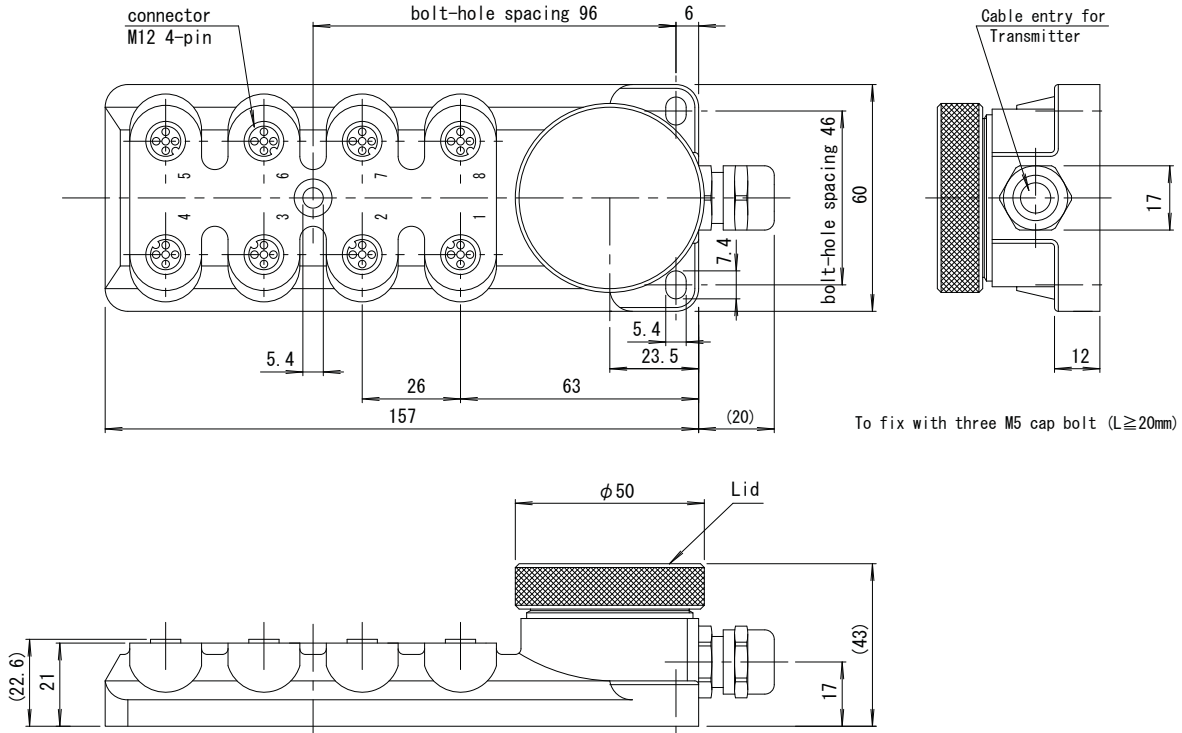Terminal Box for Remote sensor
RFK-8C01
User's guide
Read this guide before installation and operation.
Handle the Terminal Box properly.

[Dimension]

connector M12 4-pin
bolt-hole spacing 96
6
Cable entry for Transmitter
bolt-hole spacing 46
60
7.4
5.4
23.5
5.4
26
63
157
(20)
17
12

To fix with three M5 cap bolt (L≧20mm)

φ50
Lid
(22.6)
21
(43)
17

[Specification]

Appricable Transmitter		RXT8/RFTA/RFTB/RPT8/RS08TA
Material	Housing	Aluminum sandmold casting
	Lid	Aluminum cutting
	Packing	Viton
Protection class		IP67
Terminal block	Transmitter	12 poles crewless terminal block
	Detector	4 poles connector (M12 x 4)
Cablegland	Transmitter	PG9 x 1
Mounting		M5 cap bolt x 3
Blank plug		VA-OT5 (4 pieces are supplied with Terminal Box)

Type code	Appricable Transmitter	Appricable Detector switch
R F K－8 C 0 1	RXT8- _ _ _ _ -PU RFTA- _ _ _ _ -PU	Exclusive proximity switch / RXD Mechanical switch
	RFTB- _ _ _ _ -PU	Exclusive proximity switch / RFD Mechanical switch
	RPT8- _ _ _ _ -PU RS08T- _ _ _ _ -PU	DC 2-Wire Detector switch Exclusive proximity switch / RFD Mechanical switch

Connection of the Transmitter to the Terminal Box

Connect the Transmitter to the Terminal Box in accordance
with the following procedure.
Measure of strip cables (Fig. 1)
    1. Strip outer sheathes of cable.
    2. Strip insulations of cores.

Fastening position of cable (Fig. 2)
    Make sure that outer sheath of cable is positioned inside
    of the Terminal Box properly in tightening cable.

Mounting of Cable <fig. 3>
    Put a cap and sealing ring on cable, then insert the cable
    to the body.
    Put a cap on the Cable Gland and tighten it with a
    spanner. (Spanner caliber : 17mm)
    Applicable cable diameter : 5.0...8.0mm
    Tightening torque : 6Nm
    The cap can be shut up tightly to the body.
Replace the sealing rings of Cable Glands when you
change Transmitter in maintenance to avoid decline of its
watertight quality.
   Sealing ringCode : 991995008
            Type number : KBC-F2/E150P8

Connecting to Terminal block
    Press the button with slotted screw driver (width of edge : 2.6mm)
    and connect the core.
   Insert core to reach terminal sufficiently.
    (If a core was inserted insufficiently, core may come out or cause short
    with adjoining cable. If a core was inserted exceedingly, the core cannot
    be connected sufficiently because of terminal catching insulations.)

Cores   Insulations   Outer sheathes
10mm
50mm
(fig.1)

Body   Sealing ring   Cap
(fig.2)

17mm・6Nm
(fig.3)
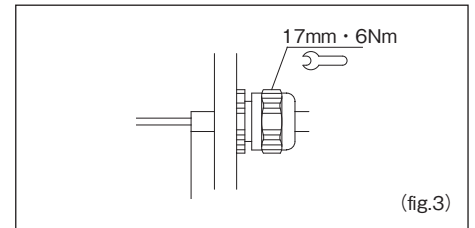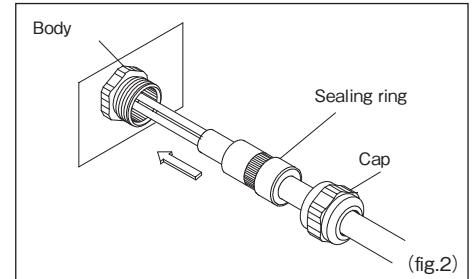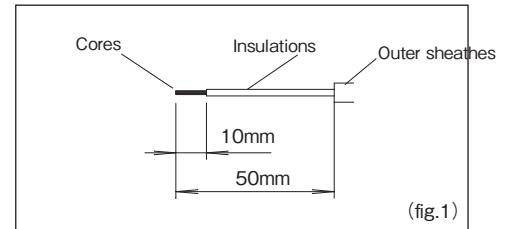
Install

Fix the Terminal Box with three M5 Allen screws(length : longer than 20mm).
Put on the lid on the Terminal Box horizontally and screw in the lid carefuly or damaged thread of the lid,
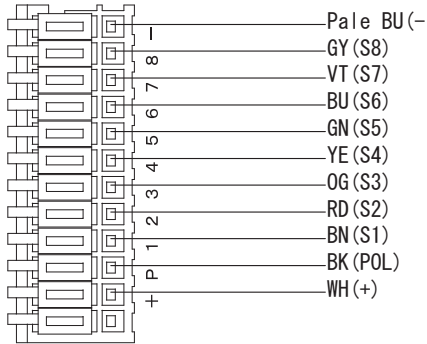then insert and fasten it tightly.
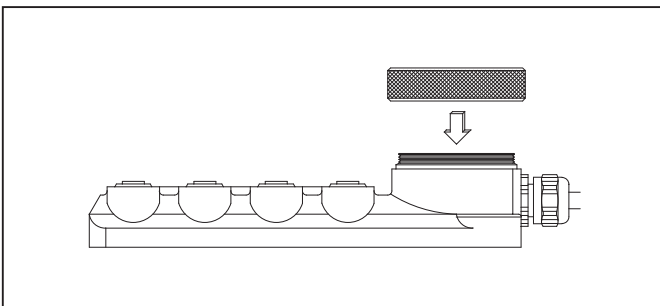
Unused connectors should be protected by blank plugs which supplied with box.
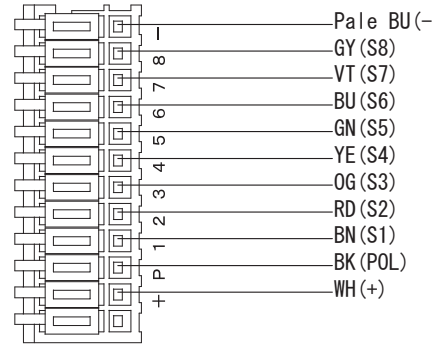
Wiring Detector switch

Transmitter：RXT8-1805D-PU-_ _

Exclusive proximity switch / RXD series

Pale BU(−
GY(S8)
VT(S7)
BU(S6)
GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)
BK(POL)
WH(+)

Transmitter：RFTA-_ _ _ _-PU-_ _ / RFTB-_ _ _ _-PU-_ _

Exclusive proximity switch / RXD , RFD series

Pale BU(−
GY(S8)
VT(S7)
BU(S6)
GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)
BK(POL)
WH(+)

Type code	Appricable Detector
RFTA-_ _ _ _-PU-_ _	RXD series , Mechanical switch
RFTB-_ _ _ _-PU-_ _	RFD series , Mechanical switch

Transmitter：RPT8-1803D-PU-_ _ / RS08TA-018D-PU-_ _
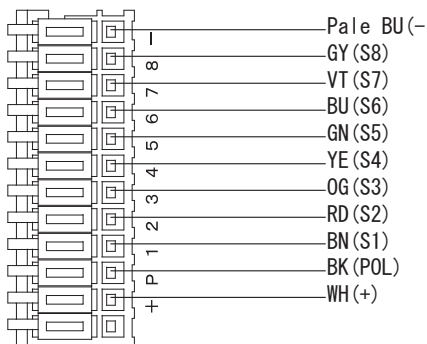
DC 2-wire Detector / Non-polarized Switch

BK(+)
GY(S8)
VT(S7)
BU(S6)
GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)

DC 2-wire Detector / Polarized Switch

GY(S8)
VT(S7)
BU(S6)
GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)

BK(+)
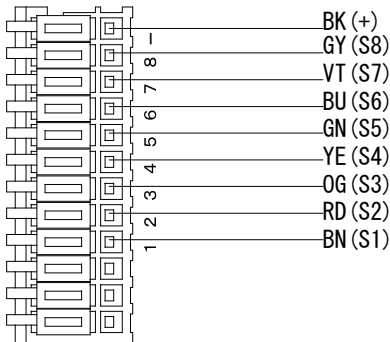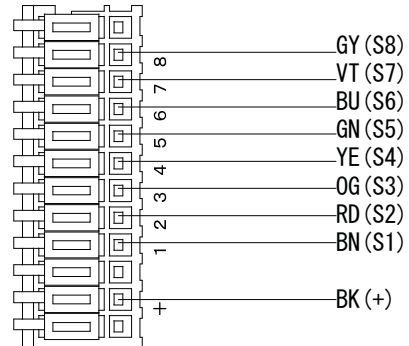
Transmitter：RPT8-3007D-PU-_ _

DC 2-wire Detector / Non-polarized Switch

Pale BU(−
GY(S8)
VT(S7)
BU(S6)
GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)
BK(POL)
WH(+)

Transmitter：RPT8-3007D-TYT19

DC 2-wire Detector / Polarized Switch

Pale BU(−
GY(S8)
VT(S7)
BU(S6)
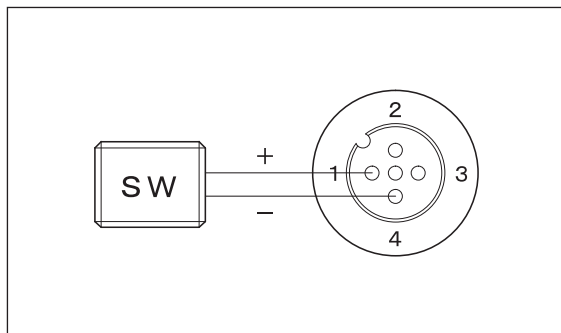GN(S5)
YE(S4)
OG(S3)
RD(S2)
BN(S1)
BK(POL)
WH(+)
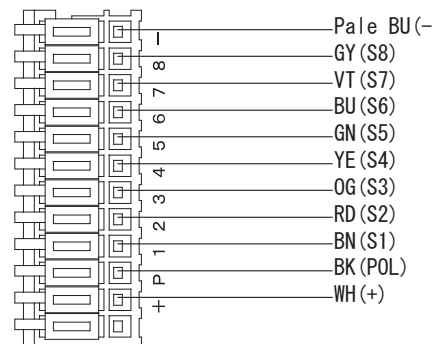
Wiring to Connector

In accordance with the wiring diagram bellow, connect the wire of detectors to connectors.

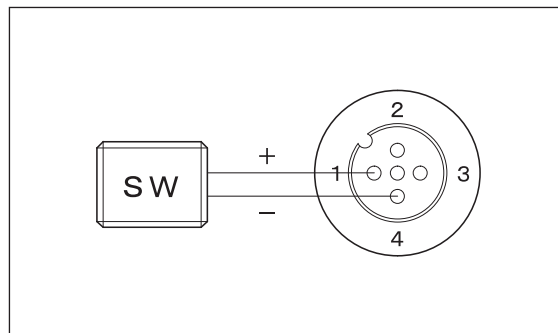Exclusive detector switch RXD / RFD
Mechanical switch

Connect Mechanical limit
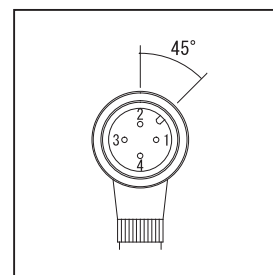switch with LED to RFTA

Connect to pol. 1, 4

Connect to pol. 1, 4

Connection of Angle Connectors

In using angle connectors, use a connector which a projection is positioned
indicated in the right figure.
If you use different type connectors, connectors interfere each other and other
connectors cannot connect into the contacts.

*Use this type connector.

Specifcations are subject to change without notice.