

OPERATION MANUAL

HVS-TALOC20

HVS-TALOC32

Tally Open Collector Unit

HVS-TALR20

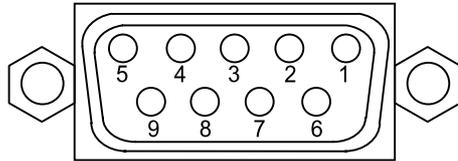
HVS-TALR32

Tally Relay Unit

(2nd Edition, 2008/03/06)

1. Connector Information

1-1. CONTROL IN



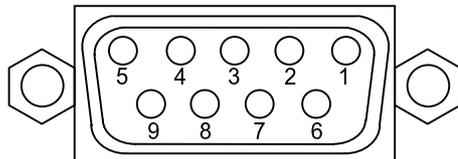
CONTROL IN Connector Pin Assignment Table (RS422 9-pin D-sub, female)

| PIN No. | Signal | Description |
|---------|--------|-------------------|
| 1 | FG | Frame ground |
| 2 | T (-) | Transmit data (-) |
| 3 | R (+) | Receive data (+) |
| 4 | SG | Signal ground |
| 5 | SG | Signal ground |
| 6 | SG | Signal ground |
| 7 | T (+) | Transmit data (+) |
| 8 | R (-) | Receive data (-) |
| 9 | FG | Frame ground |

Cabling

Use accessory control cable supplied with your Hanabi TALLY unit.

1-2. CONTROL OUT



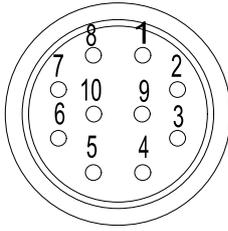
CONTROL OUT Connector Pin Assignment Table (RS422 9-pin D-sub, female)

| PIN No. | Signal | Description |
|---------|--------|-------------------|
| 1 | FG | Frame ground |
| 2 | R (-) | Receive data (-) |
| 3 | T (+) | Transmit data (+) |
| 4 | SG | Signal ground |
| 5 | SG | Signal ground |
| 6 | SG | Signal ground |
| 7 | R (+) | Receive data (+) |
| 8 | T (-) | Transmit data (-) |
| 9 | FG | Frame ground |

Cabling

Use accessory control cable supplied with other Hanabi TALLY unit.

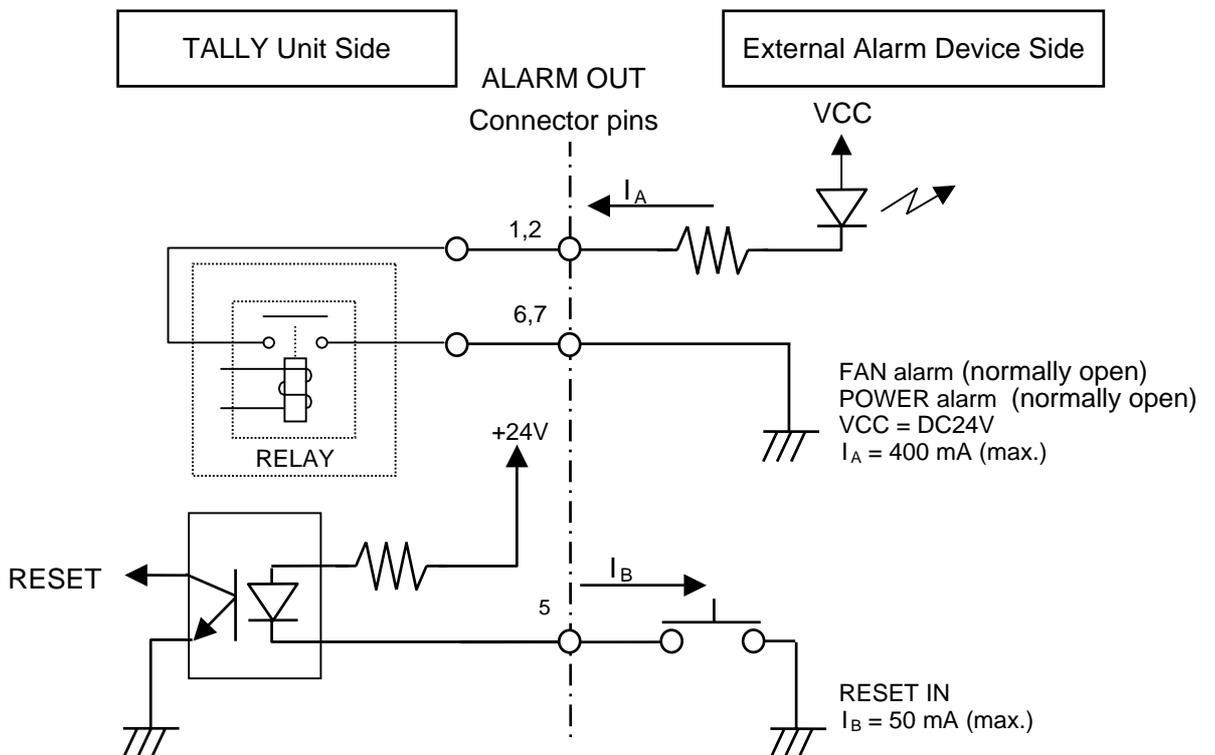
1-3. ALARM OUT



ALARM OUT Connector Pin Assignment Table (10-pin round connector, female)

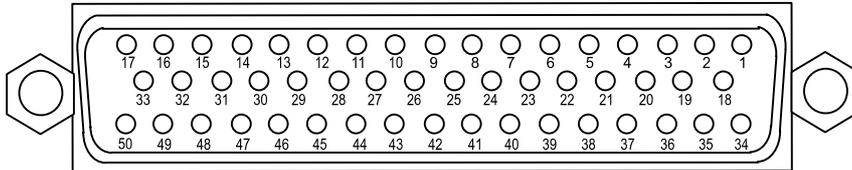
| Pin No. | Signal | Description |
|---------|--------------------|--|
| 1 | FAN ALARM OUT | Fan failure alarm. Normally open relay. |
| 2 | POWER ALARM OUT | Power failure alarm. Normally open relay. |
| 3 | - | Open |
| 4 | - | Open |
| 5 | RESET IN | External reset input. Active low initiate. |
| 6 | FAN ALARM COMMON | Fan alarm signal common. |
| 7 | POWER ALARM COMMON | Power alarm signal common. |
| 8 | - | Open |
| 9 | SG | Signal ground |
| 10 | - | Open |

ALARM OUT Circuit



1-4. TALLY OUT(HVS-TALOC20)

1-4-1. TALLY OUT1



TALLY OUT1 Connector Pin Assignment Table (50-pin D-sub, female)

| Pin No. | Signal | Pin No. | Signal |
|---------|-------------|---------|--------|
| 1 | Tally OUT1 | 26 | OPEN |
| 2 | Tally OUT2 | 27 | OPEN |
| 3 | Tally OUT3 | 28 | OPEN |
| 4 | Tally OUT4 | 29 | OPEN |
| 5 | Tally OUT5 | 30 | OPEN |
| 6 | Tally OUT6 | 31 | OPEN |
| 7 | Tally OUT7 | 32 | OPEN |
| 8 | Tally OUT8 | 33 | OPEN |
| 9 | Tally OUT9 | 34 | GND |
| 10 | Tally OUT10 | 35 | GND |
| 11 | Tally OUT11 | 36 | GND |
| 12 | Tally OUT12 | 37 | GND |
| 13 | Tally OUT13 | 38 | GND |
| 14 | Tally OUT14 | 39 | GND |
| 15 | Tally OUT15 | 40 | GND |
| 16 | Tally OUT16 | 41 | GND |
| 17 | Tally OUT17 | 42 | GND |
| 18 | Tally OUT18 | 43 | GND |
| 19 | Tally OUT19 | 44 | GND |
| 20 | Tally OUT20 | 45 | GND |
| 21 | OPEN | 46 | GND |
| 22 | OPEN | 47 | GND |
| 23 | OPEN | 48 | GND |
| 24 | OPEN | 49 | GND |
| 25 | OPEN | 50 | GND |

■ To fabricate connection cable:

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALOC20. Assembly parts supplied are as given below.

Backshell: DD-C8-J13 (JAE)

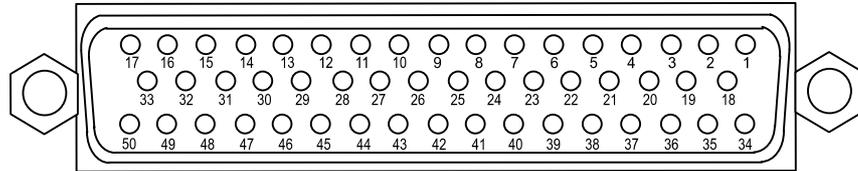
Connector Core: D50P-N (JAE)

NOTE

The table above is pin assignments for the HVS-TALOC20 (open collector units).

1-5. TALLY OUT(HVS-TALOC32)

1-5-1. TALLY OUT1



TALLY OUT 1 Connector Pin Assignment Table (50-pin D-sub, female)

| Pin No. | Signal | Pin No. | Signal |
|---------|-------------|---------|-------------|
| 1 | Tally OUT1 | 26 | Tally OUT26 |
| 2 | Tally OUT2 | 27 | Tally OUT27 |
| 3 | Tally OUT3 | 28 | Tally OUT28 |
| 4 | Tally OUT4 | 29 | Tally OUT29 |
| 5 | Tally OUT5 | 30 | Tally OUT30 |
| 6 | Tally OUT6 | 31 | Tally OUT31 |
| 7 | Tally OUT7 | 32 | Tally OUT32 |
| 8 | Tally OUT8 | 33 | OPEN |
| 9 | Tally OUT9 | 34 | GND |
| 10 | Tally OUT10 | 35 | GND |
| 11 | Tally OUT11 | 36 | GND |
| 12 | Tally OUT12 | 37 | GND |
| 13 | Tally OUT13 | 38 | GND |
| 14 | Tally OUT14 | 39 | GND |
| 15 | Tally OUT15 | 40 | GND |
| 16 | Tally OUT16 | 41 | GND |
| 17 | Tally OUT17 | 42 | GND |
| 18 | Tally OUT18 | 43 | GND |
| 19 | Tally OUT19 | 44 | GND |
| 20 | Tally OUT20 | 45 | GND |
| 21 | Tally OUT21 | 46 | GND |
| 22 | Tally OUT22 | 47 | GND |
| 23 | Tally OUT23 | 48 | GND |
| 24 | Tally OUT24 | 49 | GND |
| 25 | Tally OUT25 | 50 | GND |

■ To fabricate connection cable:

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALOC32. Assembly parts supplied are as given below.

Backshell: DD-C8-J13 (JAE)

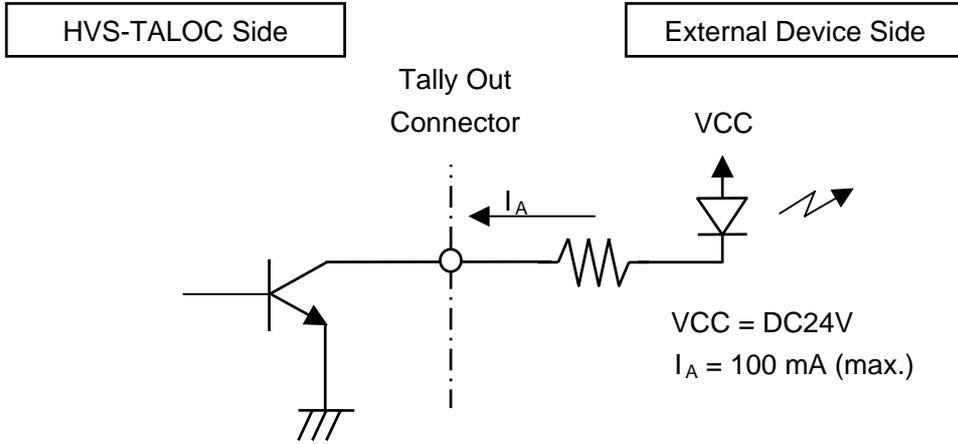
Connector Core: D50P-N (JAE)

NOTE

The table above is pin assignments for the HVS-TALOC32 (open collector units).

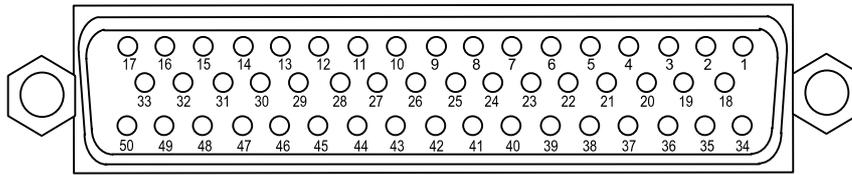
1-5-2. TALOC Circuit Diagram

HVS-TALOC20/ HVS-TALOC32 (Equivalent circuit)



1-6. TALLY OUT (HVS-TALR20)

1-6-1. TALLY OUT 1(HVS-TALR20)



◆ **TALLY OUT 1 Connector Pin Assignment Table (50-pin D-sub, female)**

| Pin No. | Signal | # | Pin No. | Signal | # |
|---------|----------------------|---|---------|---------------------|----|
| 1 | Tally OUT1 (C.) *1 | 1 | 28 | Tally OUT 10 (C.) | 10 |
| 2 | Tally OUT1 (COM.) *2 | | 29 | Tally OUT 10 (COM.) | |
| 3 | Tally OUT1 (O.) *3 | | 30 | Tally OUT 10 (O.) | |
| 4 | Tally OUT2 (C.) | 2 | 31 | Tally OUT 11 (C.) | 11 |
| 5 | Tally OUT2 (COM.) | | 32 | Tally OUT 11 (COM.) | |
| 6 | Tally OUT2 (O.) | | 33 | Tally OUT 11 (O.) | |
| 7 | Tally OUT3 (C.) | 3 | 34 | Tally OUT 12 (C.) | 12 |
| 8 | Tally OUT3 (COM.) | | 35 | Tally OUT 12 (COM.) | |
| 9 | Tally OUT3 (O.) | | 36 | Tally OUT 12 (O.) | |
| 10 | Tally OUT4 (C.) | 4 | 37 | Tally OUT 13 (C.) | 13 |
| 11 | Tally OUT4 (COM.) | | 38 | Tally OUT 13 (COM.) | |
| 12 | Tally OUT4 (O.) | | 39 | Tally OUT 13 (O.) | |
| 13 | Tally OUT5 (C.) | 5 | 40 | Tally OUT 14 (C.) | 14 |
| 14 | Tally OUT5 (COM.) | | 41 | Tally OUT 14 (COM.) | |
| 15 | Tally OUT5 (O.) | | 42 | Tally OUT 14 (O.) | |
| 16 | Tally OUT6 (C.) | 6 | 43 | Tally OUT 15 (C.) | 15 |
| 17 | Tally OUT6 (COM.) | | 44 | Tally OUT 15 (COM.) | |
| 18 | Tally OUT6 (O.) | | 45 | Tally OUT 15 (O.) | |
| 19 | Tally OUT7 (C.) | 7 | 46 | Tally OUT 16 (C.) | 16 |
| 20 | Tally OUT7 (COM.) | | 47 | Tally OUT 16 (COM.) | |
| 21 | Tally OUT7 (O.) | | 48 | Tally OUT 16 (O.) | |
| 22 | Tally OUT8 (C.) | 8 | 49 | OPEN | |
| 23 | Tally OUT8 (COM.) | | 50 | GND | |
| 24 | Tally OUT8 (O.) | | | | |
| 25 | Tally OUT9 (C.) | 9 | | | |
| 26 | Tally OUT9 (COM.) | | | | |
| 27 | Tally OUT9 (O.) | | | | |

Output number

*1) C. = Closed circuit, *2) COM. = Common, *3) O. = Open circuit

◆ **To fabricate connection cable:**

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALR20. Assembly parts supplied are as given below.

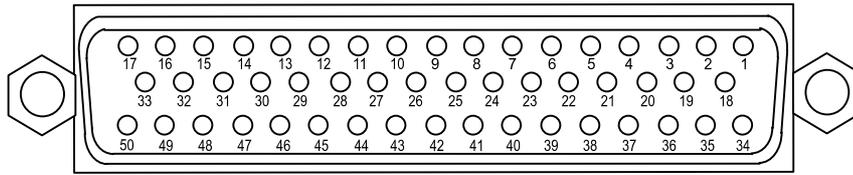
Backshell: DD-C8-J13 (JAE))

Connector Core: D50P-N (JAE)

NOTE

The table above is pin assignments for the HVS-TALR20 (relay units).

1-6-2. TALLY OUT 2(HVS-TALR20)



◆ TALLY OUT 2 Connector Pin Assignment Table (50-pin D-sub, female)

| Pin No. | Signal | # | Pin No. | Signal | # |
|---------|-----------------------|----|---------|--------|---|
| 1 | Tally OUT17 (C.) *1 | 17 | 28 | OPEN | |
| 2 | Tally OUT17 (COM.) *2 | | 29 | OPEN | |
| 3 | Tally OUT17 (O.) *3 | | 30 | OPEN | |
| 4 | Tally OUT18 (C.) | 18 | 31 | OPEN | |
| 5 | Tally OUT18 (COM.) | | 32 | OPEN | |
| 6 | Tally OUT18 (O.) | | 33 | OPEN | |
| 7 | Tally OUT19 (C.) | 19 | 34 | OPEN | |
| 8 | Tally OUT19 (COM.) | | 35 | OPEN | |
| 9 | Tally OUT19 (O.) | | 36 | OPEN | |
| 10 | Tally OUT20 (C.) | 20 | 37 | OPEN | |
| 11 | Tally OUT20 (COM.) | | 38 | OPEN | |
| 12 | Tally OUT20 (O.) | | 39 | OPEN | |
| 13 | OPEN | | 40 | OPEN | |
| 14 | OPEN | | 41 | OPEN | |
| 15 | OPEN | | 42 | OPEN | |
| 16 | OPEN | | 43 | OPEN | |
| 17 | OPEN | | 44 | OPEN | |
| 18 | OPEN | | 45 | OPEN | |
| 19 | OPEN | | 46 | OPEN | |
| 20 | OPEN | | 47 | OPEN | |
| 21 | OPEN | | 48 | OPEN | |
| 22 | OPEN | | 49 | OPEN | |
| 23 | OPEN | 50 | GND | | |
| 24 | OPEN | | | | |
| 25 | OPEN | | | | |
| 26 | OPEN | | | | |
| 27 | OPEN | | | | |

Output number

*1) C. = Closed circuit, *2) COM. = Common, *3) O. = Open circuit

◆ To fabricate connection cable:

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALR20.

Assembly parts supplied are as given below.

Backshell: DD-C8-J13 (JAE)

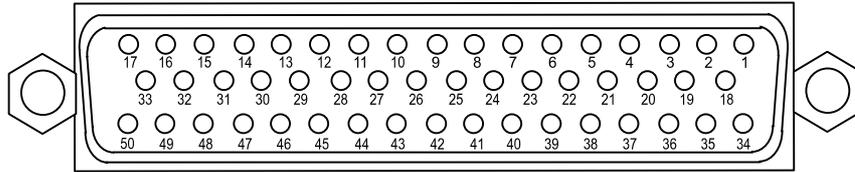
Connector Core: D50P-N (JAE)

NOTE

The table above is pin assignments for the HVS-TALR20 (relay units).

1-7. TALLY OUT (HVS-TALR32)

1-7-1. TALLY OUT 1(HVS-TALR32)



◆ **TALLY OUT 1 Connector Pin Assignment Table (50-pin D-sub, female)**

| Pin No. | Signal | # | Pin No. | Signal | # |
|---------|-----------------------|---|---------|---------------------|----|
| 1 | Tally OUT1 (C.) *1) | 1 | 28 | Tally OUT 10 (C.) | 10 |
| 2 | Tally OUT1 (COM.) *2) | | 29 | Tally OUT 10 (COM.) | |
| 3 | Tally OUT1 (O.) *3) | | 30 | Tally OUT 10 (O.) | |
| 4 | Tally OUT2 (C.) | 2 | 31 | Tally OUT 11 (C.) | 11 |
| 5 | Tally OUT2 (COM.) | | 32 | Tally OUT 11 (COM.) | |
| 6 | Tally OUT2 (O.) | | 33 | Tally OUT 11 (O.) | |
| 7 | Tally OUT3 (C.) | 3 | 34 | Tally OUT 12 (C.) | 12 |
| 8 | Tally OUT3 (COM.) | | 35 | Tally OUT 12 (COM.) | |
| 9 | Tally OUT3 (O.) | | 36 | Tally OUT 12 (O.) | |
| 10 | Tally OUT4 (C.) | 4 | 37 | Tally OUT 13 (C.) | 13 |
| 11 | Tally OUT4 (COM.) | | 38 | Tally OUT 13 (COM.) | |
| 12 | Tally OUT4 (O.) | | 39 | Tally OUT 13 (O.) | |
| 13 | Tally OUT5 (C.) | 5 | 40 | Tally OUT 14 (C.) | 14 |
| 14 | Tally OUT5 (COM.) | | 41 | Tally OUT 14 (COM.) | |
| 15 | Tally OUT5 (O.) | | 42 | Tally OUT 14 (O.) | |
| 16 | Tally OUT6 (C.) | 6 | 43 | Tally OUT 15 (C.) | 15 |
| 17 | Tally OUT6 (COM.) | | 44 | Tally OUT 15 (COM.) | |
| 18 | Tally OUT6 (O.) | | 45 | Tally OUT 15 (O.) | |
| 19 | Tally OUT7 (C.) | 7 | 46 | Tally OUT 16 (C.) | 16 |
| 20 | Tally OUT7 (COM.) | | 47 | Tally OUT 16 (COM.) | |
| 21 | Tally OUT7 (O.) | | 48 | Tally OUT 16 (O.) | |
| 22 | Tally OUT8 (C.) | 8 | 49 | OPEN | |
| 23 | Tally OUT8 (COM.) | | 50 | GND | |
| 24 | Tally OUT8 (O.) | | | | |
| 25 | Tally OUT9 (C.) | 9 | | | |
| 26 | Tally OUT9 (COM.) | | | | |
| 27 | Tally OUT9 (O.) | | | | |

Output number

*1) C. = Closed circuit, *2) COM. = Common, *3) O. = Open circuit

◆ **To fabricate connection cable:**

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALR32. Assembly parts supplied are as given below.

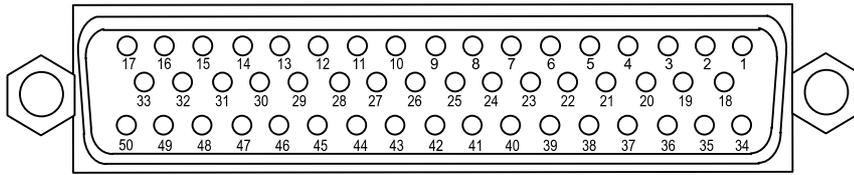
Backshell: DD-C8-J13 (JAE))

Connector Core: D50P-N (JAE)

NOTE

The table above is pin assignments for the HVS-TALR32 (relay units).

1-7-2. TALLY OUT 2(HVS-TALR32)



◆ TALLY OUT 2 Connector Pin Assignment Table (50-pin D-sub, female)

| Pin No. | Signal | # | Pin No. | Signal | # |
|---------|------------------------|----|---------|--------------------|----|
| 1 | Tally OUT17 (C.) *1) | 17 | 28 | Tally OUT26 (C.) | 26 |
| 2 | Tally OUT17 (COM.) *2) | | 29 | Tally OUT26 (COM.) | |
| 3 | Tally OUT17 (O.) *3) | | 30 | Tally OUT26 (O.) | |
| 4 | Tally OUT18 (C.) | 18 | 31 | Tally OUT27 (C.) | 27 |
| 5 | Tally OUT18 (COM.) | | 32 | Tally OUT27 (COM.) | |
| 6 | Tally OUT18 (O.) | | 33 | Tally OUT27 (O.) | |
| 7 | Tally OUT19 (C.) | 19 | 34 | Tally OUT28 (C.) | 28 |
| 8 | Tally OUT19 (COM.) | | 35 | Tally OUT28 (COM.) | |
| 9 | Tally OUT19 (O.) | | 36 | Tally OUT28 (O.) | |
| 10 | Tally OUT20 (C.) | 20 | 37 | Tally OUT29 (C.) | 29 |
| 11 | Tally OUT20 (COM.) | | 38 | Tally OUT29 (COM.) | |
| 12 | Tally OUT20 (O.) | | 39 | Tally OUT29 (O.) | |
| 13 | Tally OUT21 (C.) | 21 | 40 | Tally OUT30 (C.) | 30 |
| 14 | Tally OUT21 (COM.) | | 41 | Tally OUT30 (COM.) | |
| 15 | Tally OUT21 (O.) | | 42 | Tally OUT30 (O.) | |
| 16 | Tally OUT22 (C.) | 22 | 43 | Tally OUT31 (C.) | 31 |
| 17 | Tally OUT22 (COM.) | | 44 | Tally OUT31 (COM.) | |
| 18 | Tally OUT22 (O.) | | 45 | Tally OUT31 (O.) | |
| 19 | Tally OUT23 (C.) | 23 | 46 | Tally OUT32 (C.) | 32 |
| 20 | Tally OUT23 (COM.) | | 47 | Tally OUT32 (COM.) | |
| 21 | Tally OUT23 (O.) | | 48 | Tally OUT32 (O.) | |
| 22 | Tally OUT24 (C.) | 24 | 49 | OPEN | |
| 23 | Tally OUT24 (COM.) | | 50 | GND | |
| 24 | Tally OUT24 (O.) | | | | |
| 25 | Tally OUT25 (C.) | 25 | | | |
| 26 | Tally OUT25 (COM.) | | | | |
| 27 | Tally OUT25 (O.) | | | | |

Output number

*1) C. = Closed circuit, *2) COM. = Common, *3) O. = Open circuit

◆ To fabricate connection cable:

Use accessory 50-pin D-sub (male) connector assembly supplied with your HVS-TALR32. Assembly parts supplied are as given below.

Backshell: DD-C8-J13 (JAE))

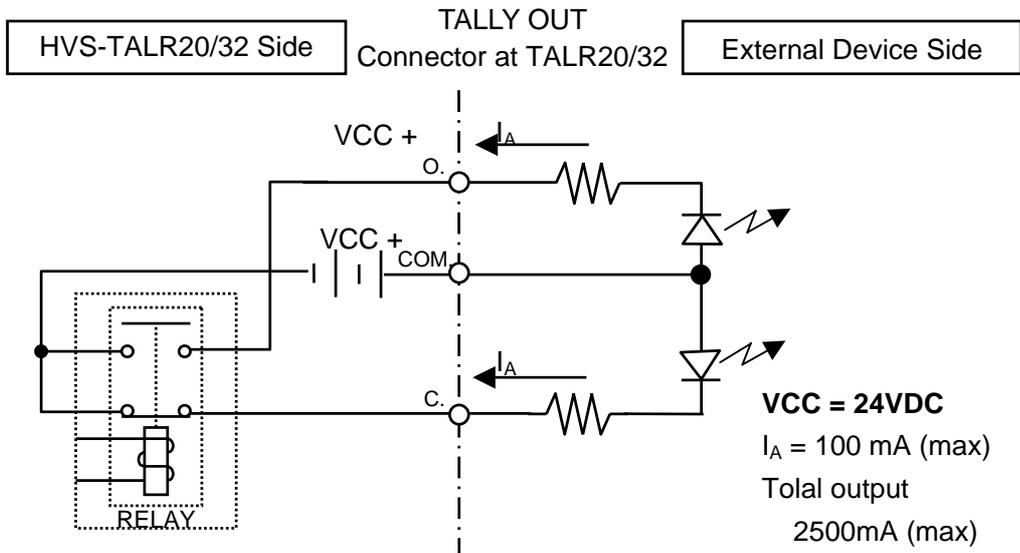
Connector Core: D50P-N (JAE)

NOTE

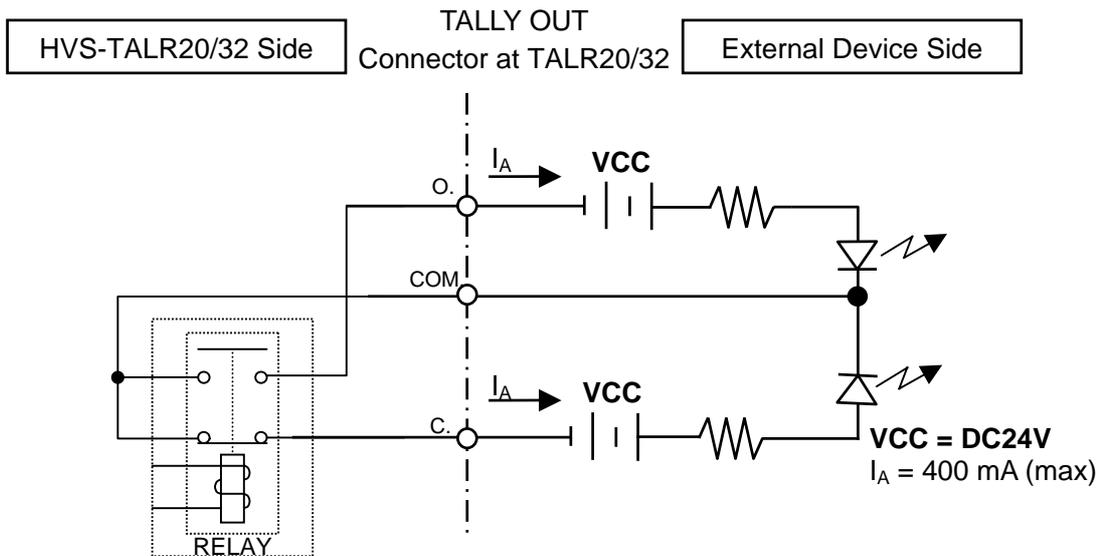
The table above is pin assignments for the HVS-TALR32 (relay units).

1-7-3. TALR Circuit Diagrams

TALLY OUT 1 – 2 Voltage Output Circuit (HVS-TALR20/32)



TALLY OUT 1 – 2 Contact Initiated Circuit (HVS-TALR20/32)



Caution

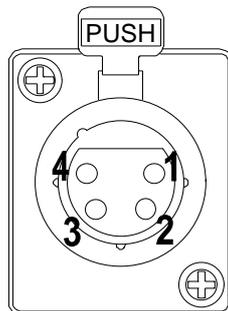
When voltage output is set, the max. load at that pin is 100mA. If more than 100mA is required, set pin to contact initiate mode.

The maximum current supplied to the DC OUT connector is 2.5A. Do not feed a current exceeding 2.5A.

If the fuse protection starts accidentally, disconnect the DC power cable from the unit, power off the unit and set it aside more than 5 minutes until it cools.

1-8. DC 24V OUT

DC24V OUT 2.5A



DC 24V OUT Connector Pin Assignment Table
(4-pin power connector, female, Canon XLR 44-313 F77)

| Pin NO. | Signal | Description |
|---------|-------------|--|
| 1 | +24V DC OUT | 24VDC, 2.5A, Capacitor resettable fuse |
| 2 | +24V DC OUT | |
| 3 | GND | Ground |
| 4 | GND | Ground |



Caution

The maximum current supplied to the DC OUT connector is 2.5A.
Do not feed a current exceeding 2.5A.

If the fuse protection starts accidentally, disconnect the DC power cable from the unit, power off the unit and set it aside more than 5 minutes until it cools.