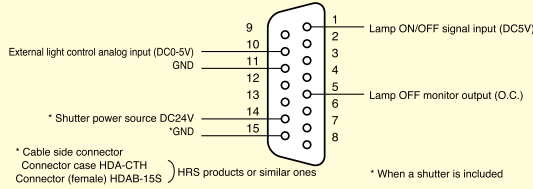




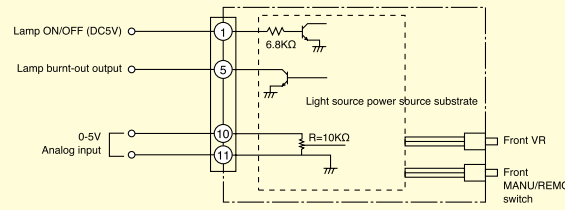
Remote connector specifications

MHF-H50LR

External cable side connector connection diagram



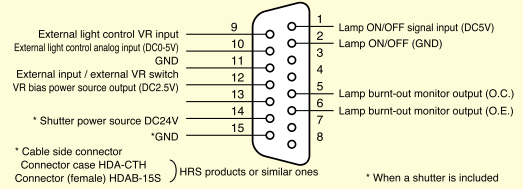
Connection specifications and how to switch modes



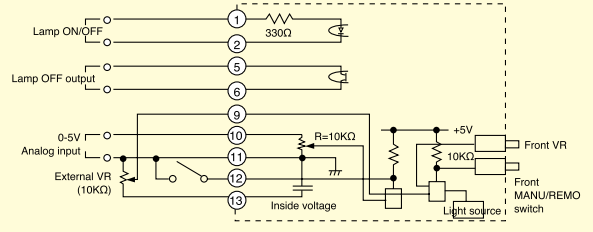
- 1) MANU/REMO selector switch (front panel)
 MANU: Light control mode by panel VR (manual light control)
 REMO: Light control by inputting signals through the back connector (DSUB15P) (remote light control)
- 2) On the remote mode, light quantity can be adjusted to the max by inputting 0 to 5V voltage to SUB connector pin no.10 on the back.
 * There is partial pressure resistance of about 10KΩ between pins no.10 and 11.

MHF-C50LR/-D100LR/ -D100SLR/ -G150LR

External cable side connector connection diagram



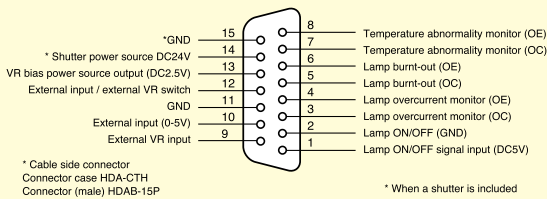
Connection specifications and how to switch modes



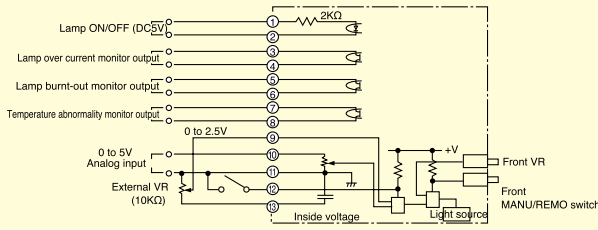
- 1) MANU/REMO selector switch (front panel)
 MANU: Light control mode by panel VR (manual light control)
 REMO: Light control by inputting signals through the back connector (DSUB15P) (remote light control)
- 2) On the remote mode, following selections can be made using SUB connector pin no.12 on the back.
 When pins no.11 and 12 are closed --> Light quantity can be adjusted from 0 to the max by inputting voltage of 0-5V to pin no.10.
 When pins no.11 and 12 are open --> Light quantity can be adjusted from 0 to the max by inputting voltage of 0-2.5V to pin no.9.
 3) Open collector input is possible for pin no.12 because it is pulled up to 5V at 10KΩ inside.

MHF-M1001/-M1002

External cable side connector connection diagram

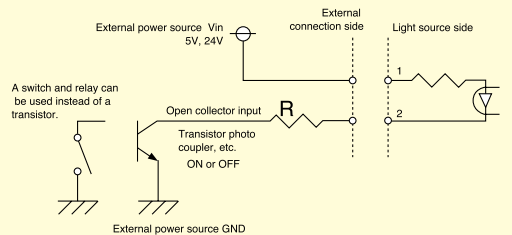


Connection specifications and how to switch modes



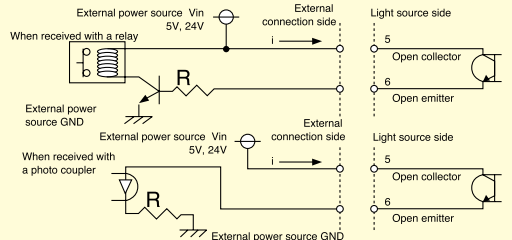
- 1) MANU/REMO selector switch (front panel)
 MANU: Light control mode by panel VR (manual light control)
 REMO: Light control by inputting signals through the back connector (DSUB15P) (remote light control)
- 2) On the remote mode, following selections can be made using SUB connector pin no.12 on the back.
 When pins no.11 and 12 are open --> Light quantity can be adjusted from 0 to the max by inputting voltage of 0-5V to pin no.10.
 *1. There is partial pressure resistance of about 10KΩ between pins no.10 and 11.
 When pins no.11 and 12 are closed --> Light quantity can be adjusted from 0 to the max by inputting voltage of 0-2.5V to pin no.9.
 *2. Pin no.12 can be used as a bias power source for external variable resistance because 2.5V of internal voltage is outputted.

Signal input circuit connection example (lamp ON/OFF signal)
 (Compatible models: MHF-C50LR/D100LR/G150LR)



Operation		* External resistance and current value are as follows; Use resistance of 1/4W or more.		
ON	Off	Vin	R (Ω)	Current
On	Off	5V	0	About 12mA
Both for transistor and switch		24V	3.3 to 4.7k	About 7mA at 3.3k and 5mA at 4.7k

Signal output detection circuit connection example (lamp burnt-out signal)
 (Compatible models: MHF-C50LR/D100LR/G150LR)



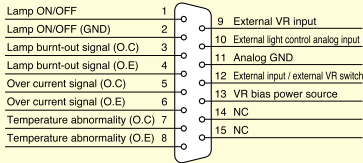
* When signal is outputted: About 0.2V between pins no.5 and 6 at I=1mA. About 1V between pins no.5 and 6 at I=5mA.		* Reference values for external resistance and current are as follows. Use resistance of 1/4W or more.			
Signal	Between pins no.5 and 6	Current	Vin	R (Ω)	Current I (mA)
Lamp normal	Not conducted	On	5V	1 to 3.3k	About 1 to 4
Lamp burnt-out	Conducted	Off	24V	4.7 to 22k	About 1 to 5

© Resistance and current vary according to parts used. Please check beforehand.

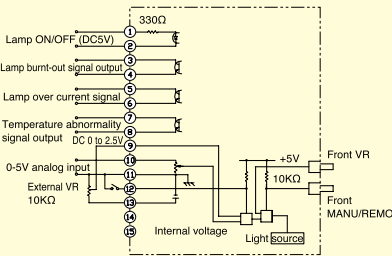


MHF-KFB100/-KFB150

External cable side connector connection diagram

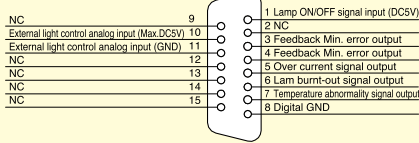


Connection specifications and how to switch modes

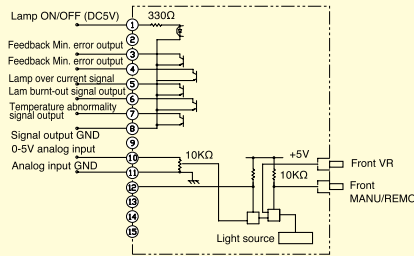


MHF-FB100/-FB150

External cable side connector connection diagram

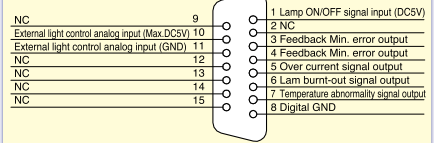


Connection specifications and how to switch modes

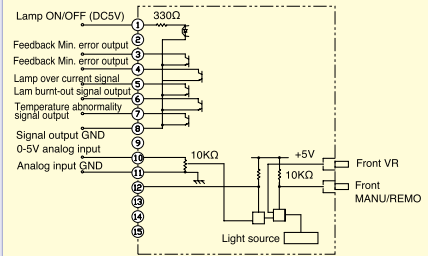


MHF-FBS100/-FBS150

External cable side connector connection diagram

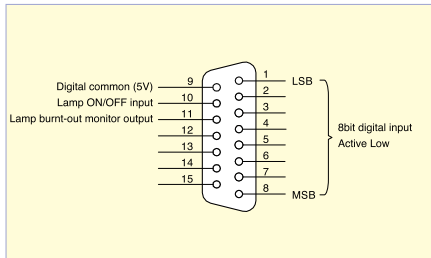


Connection specifications and how to switch modes

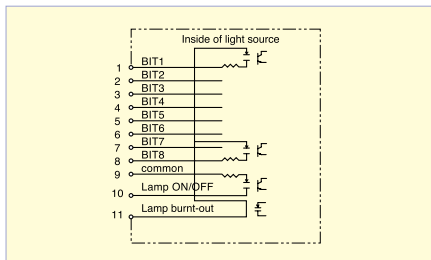


External 8bit digital light control (option) connector connection specifications

External cable side connector connection diagram



Connection specifications and how to switch modes



Control truth table

LAMP ON/OFF	LAMP monitor	BIT8	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	Lamp output
0	0	X	X	X	X	X	X	X	X	OFF (off)
1	1	X	X	X	X	X	X	X	X	Lamp burnt-out
1	0	0	0	0	0	0	0	0	0	ON (Min.)
1	0	0	0	0	0	0	0	0	1	ON
1	0	0	0	0	0	0	0	1	1	ON
1	0	0	0	0	0	0	0	1	0	ON
1	0	1	1	1	1	1	1	1	0	ON
1	0	1	1	1	1	1	1	1	1	ON (Max.)

Note X: ON/OFF can be selected 0: Low 1: High