Motion Sensors Quick Guide: Detachable Sensor Head Design

Bluetooth (Koolmesh, Casambi, Tuya)

Bluetooth in Sensor Head (ideal for metal luminaires)

- HCD038/P (Pg. 83)
  - 220V-240VAC input
  - DALI-2 output with 80mA PSU
  - 2 Switch-Dim (PUSH) terminals
- HCD038 (Pg. 83)
  - 220V-240VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HCD438 (Pg. 83)
  - 120V-277VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HC038V (Pg. 83)
  - 220V-240VAC input
  - 1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal
- HC438V (Pg. 83)
  - 120V-277VAC input
  - 1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal

Free Combination!

HF Sensor Heads

- Tri-level Control + Daylight Harvest + Human Centric Lighting (Circadian Rhythm) + Tunable White Control
  - Low-bay (3m~6m height)
    - Basic: HBT01 (Pg. 85), HBT01/CA (Pg. 86)
    - True Presence Detection: HBT01/PRO (Pg. 85)
  - High-bay (12m~15m height): HBT01/H (Pg. 86)
- Tri-level Control + Tunable White Control: HBT01/TY (Pg. 86)

PIR Sensor Heads

- Tri-level Control + Daylight Harvest + Human Centric Lighting (Circadian Rhythm) + Tunable White Control
  - Low-bay (3m~6m height): HIR62 (Pg. 87), HIR62 with HA04 (Pg. 87), HIR62 with HA05 (Pg. 87)
  - Mid-bay & High-bay (8m~15m height): HIR13/S (Pg. 86), HIR13/F (Pg. 86), HIR13/C (Pg. 86), HIR13/AA (Pg. 87), HIR16 (Pg. 87), HIR62/R (Pg. 87)

Receiver Node Only (without motion sensor)

- HBT02 (Pg. 86)
- HBT02/TY (Pg. 86)

Bluetooth in Control Base (ideal for plastic luminaires)

- HCD038/BT (Pg. 88)
  - 220V-240VAC input
  - DALI-2 output with 30mA PSU
  - 2 Switch-Dim (PUSH) terminals
- HCD438/BT (Pg. 88)
  - 120V-277VAC input
  - DALI-2 output with 30mA PSU
  - 2 Switch-Dim (PUSH) terminals
- HCD038/CA (Pg. 88)
  - 220V-240VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HCD438/CA (Pg. 88)
  - 120V-277VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HC038V/BT (Pg. 88)
  - 220V-240VAC input
  - 0/1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal
- HC438V/BT (Pg. 88)
  - 120V-277VAC input
  - 0/1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal

Free Combination!

HF Sensor Heads

- Tri-level Control + Daylight Harvest + Human Centric Lighting (Circadian Rhythm) + Tunable White Control
  - Low-bay (3m~6m height)
    - Basic: SAM20 (Pg. 92), SAM21 (Pg. 89), SAM22 (Pg. 89), SAM22/AA (Pg. 89)
    - True Presence Detection: SAM20D2/PRO (Pg. 93)
  - High-bay (12m~15m height): SAM20D2/H (Pg. 89), SAM23 (Pg. 89)

PIR Sensor Heads

- Tri-level Control + Daylight Harvest + Human Centric Lighting (Circadian Rhythm) + Tunable White Control
  - Low-bay (3m~6m height): HIR05 (Pg. 89), HIR05/FM (Pg. 89), HIR05/AA (Pg. 90), HIR07 (Pg. 90), HIR63 (Pg. 90), HIR63 with HA04 (Pg. 91), HIR63 with HA05 (Pg. 91)
  - Mid-bay & High-bay (8m~15m height): HIR11/S (Pg. 90), HIR11/F (Pg. 90), HIR11/C (Pg. 90), HIR11/AA (Pg. 90), HIR12 (Pg. 90), HIR63/R (Pg. 91)

Not Connected to Any Sensor Head

- Bluetooth Receiver Node Only (Without Motion Sensor)

No Control Base Needed

(PWM or 0-10V output for use with 3rd party LED Driver)

- HF Sensor Head
- Tri-level Dimming Control
- SAM12/TY (Pg. 96)

Non-Bluetooth

Dimming Control

Linear Shaped Control Base

- HCD038/P (Pg. 80)
  - 220V-240VAC input
  - DALI-2 output with 80mA PSU
  - 2 Switch-Dim (PUSH) terminals
- HCD038 (Pg. 80)
  - 220V-240VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HCD438 (Pg. 80)
  - 120V-277VAC input
  - DALI-2 output with 30mA PSU
  - 1 Switch-Dim (PUSH) terminal
- HC038V (Pg. 80)
  - 220V-240VAC input
  - 1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal
- HC438V (Pg. 80)
  - 120V-277VAC input
  - 1-10V dimming control with relay
  - 1 Switch-Dim (PUSH) terminal

Free Combination!

HF Sensor Heads

- Tri-level Control
  - Low-bay (3m~6m height)
    - Basic: SAM7 (Pg. 81), SAM7/I (Pg. 81), SAM7/AA (Pg. 81), SAM7/FM (Pg. 81)
    - RF: SAM8 (Pg. 81), SAM8/RC11 (Pg. 82), SAM11 (Pg. 81), SAM11/I (Pg. 81)
    - True Presence Detection: SAM7D2/PRO (Pg. 80)
  - High-bay (12m~15m height): SAM7D2/H (Pg. 80)
  - Daylight Harvest
    - High-bay (12m~15m height): SAM7D2/H (Pg. 80)
    - Low-bay (3m~6m height)
      - Basic: SAM7/I (Pg. 80)
      - True Presence Detection: SAM7D2/PRO (Pg. 80)

PIR Sensor Heads

- Tri-level Control
  - Low-bay (3m~6m height): HIR02 (Pg. 82), HIR02/FM (Pg. 82), HIR02/AA (Pg. 82), HIR04 (Pg. 84), HIR17 (Pg. 84), HIR17 with HA04 (Pg. 84), HIR17 with HA05 (Pg. 84)
  - Mid-bay & High-bay (12m~15m height): HIR19/S (Pg. 83), HIR19/F (Pg. 83), HIR19/C (Pg. 83), HIR19/AA (Pg. 84), HIR17/R (Pg. 83)
  - Daylight Harvest
    - Low-bay (3m~6m height): HIR01 (Pg. 83), HIR01/FM (Pg. 83), HIR01/AA (Pg. 83), HIR03 (Pg. 84), HIR17 (Pg. 84), HIR17 with HA04 (Pg. 84), HIR17 with HA05 (Pg. 84)
    - Mid-bay & High-bay (12m~15m height): HIR09/S (Pg. 82), HIR09/F (Pg. 82), HIR09/C (Pg. 82), HIR09/AA (Pg. 83), HIR10 (Pg. 83), HIR17/R (Pg. 83)

Rectangular Shaped Control Base

- HF Sensor Head
- 0/1-10V Tri-level Dimming Control
- HC403V-KD +SAM4 (Pg. 84)
- HC403VRC-KD/I +SAM5/I (Pg. 84)
- HC403VRC-KD (120-277VAC) (Pg. 96)
- HC603VRC-KD (347VAC) (Pg. 96)
- SAM5 (Pg. 99), SAM5/FM (Pg. 99), SAM5/IP65 (Pg. 99)

Free Combination!

- SAM5/AA (Pg. 99), SAM6 (Pg. 99), SAM9 (Pg. 99)

No Control Base Needed

(PWM or 0-10V output for use with 3rd party LED Driver)

- HF Sensor Head
- Tri-level Dimming Control
- SAM12 (Pg. 96), SAM12/RC05 (Pg. 96)
- SAM14 (Pg. 96), SAM14/RC05 (Pg. 96)

On/Off Control

Linear Shaped Control Base

- HC038 (Pg. 76)
  - 220V-240VAC input
  - On/Off control with relay
  - 1 Switch-Dim (PUSH) terminal
- HC438 (Pg. 76)
  - 120V-277VAC input
  - On/Off control with relay
  - 1 Switch-Dim (PUSH) terminal

Free Combination!

HF Sensor Heads

- Low-bay (3m~6m height): SAM13 (Pg. 94), SAM13/RC12 (Pg. 92)
- High-bay (12m~15m height): SAM13/RC12/H (Pg. 92)

PIR Sensor Heads

- Low-bay (3m~6m height): HIR02/RC12 (Pg. 92), HIR04/RC12 (Pg. 94), HIR18 (Pg. 93), HIR18 with HA04 (Pg. 93), HIR18 with HA05 (Pg. 93)
- Mid-bay & High-bay (12m~15m height): HIR18/R (Pg. 93)

Rectangular Shaped Control Base

- HF Sensor Head
- Basic: HC009S-KD +SAM4 (Pg. 94), HC009S-KD/I +SAM5/I (Pg. 94)
- Volt-free Contact (VFC): HC009SDC-KD/I +SAM5/I (Pg. 94)