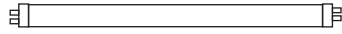


# SPECIFICATION SHEET : WHSG3-UNV-T8-HB

This Is An Original Product From Fulham Co., Inc

Description : WORKHORSE Specifier Grade Series Electronic Ballast, Drop In Replacement for Magnetic Ballast, Parallel Lamp Operation, THD Less Than 10%

**This Ballast Will Operate Following Lamps.**

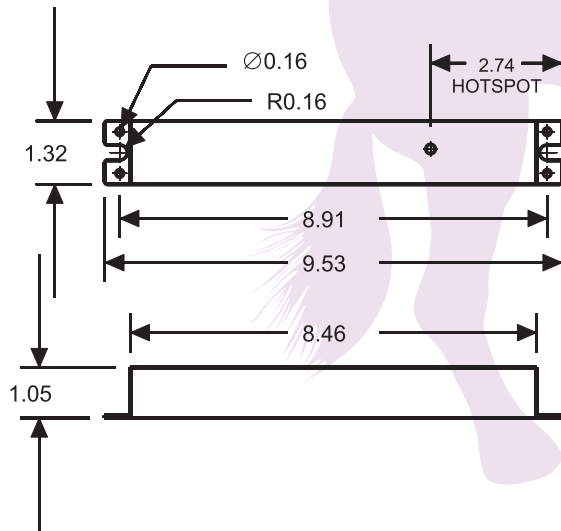


F17T8 / F25T8 / F32T8 / F40T8

## ELECTRICAL DATA (120V APPLICATION)

| INPUT VOLT: 120V ± 10%, 50/60Hz |  |       |       |       |       |       |   |   |   |
|---------------------------------|--|-------|-------|-------|-------|-------|---|---|---|
| LAMP WATTS/TYPE                 | F25T8                                  | F32T8 | F40T8 | F17T8 | F25T8 | F32T8 | - | - | - |
| LAMPS OPERATED                  | 2                                      |       |       | 3     |       |       |   |   |   |
| INPUT WATTS                     | 64                                     | 85    | 101   | 63    | 85    | 115   |   |   |   |
| LINE CURRENT:                   | 0.53                                   | 0.71  | 0.85  | 0.53  | 0.71  | 0.96  |   |   |   |
| POWER FACTOR                    | 0.99                                   | 0.99  | 0.99  | 0.99  | 0.99  | 0.99  |   |   |   |
| BALLAST FACTOR                  | 1.30                                   | 1.32  | 1.29  | 1.14  | 1.17  | 1.19  |   |   |   |
| EFFICACY FACTOR                 | 2.04                                   | 1.55  | 1.27  | 1.80  | 1.38  | 1.04  |   |   |   |
| THD                             | 4%                                     | 4%    | 4%    | 4%    | 3%    | 3%    |   |   |   |
| CURRENT CREST FACTOR            | < 1.7                                  |       |       |       |       |       |   |   |   |
| EMI/RFI COMPLIANCE              | FCC PART 18-A                          |       |       |       |       |       |   |   |   |
| SOUND RATING                    | " A "                                  |       |       |       |       |       |   |   |   |
| BALLAST TYPE                    | INSTANT START                          |       |       |       |       |       |   |   |   |
| VOLTAGE TRANSIENTS              | ANSI C82.11 - 1993                     |       |       |       |       |       |   |   |   |
| INPUT/PROTECTION                | FUSE                                   |       |       |       |       |       |   |   |   |
| OUTPUT/PROTECTION               | EOL                                    |       |       |       |       |       |   |   |   |
| MIN. OPERATING TEMP             | - 18 °C ( 0 ° F )                      |       |       |       |       |       |   |   |   |
| MAX. CASE TEMP                  | 70 °C ( 158 ° F )                      |       |       |       |       |       |   |   |   |
| TYPE "HL" APPROVAL              | APPROVED FOR HAZARDOUS LOCATION        |       |       |       |       |       |   |   |   |
| ENERGY STAR 4.0                 | -                                      |       |       |       |       |       |   |   |   |
| APPROVALS/CLASS                 | UL /cUL LISTED, CLASS " P ", 1 OUTDOOR |       |       |       |       |       |   |   |   |

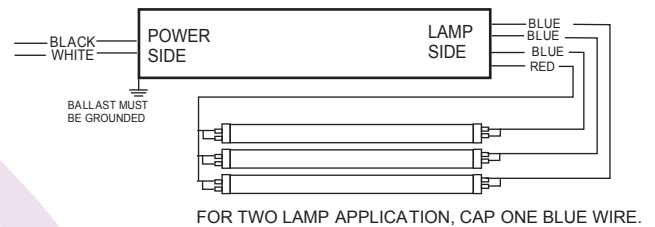
## MECHANICAL DATA



Where : L = Length, W = Width, H = Height

## WIRING DIAGRAMS

| WIRE            | BLACK   | WHITE   | RED     | BLUE    | YELLOW | BROWN |
|-----------------|---------|---------|---------|---------|--------|-------|
| LENGTH - INCHES | 25 ± 1" | 25 ± 1" | 46 ± 1" | 31 ± 1" |        |       |



NOTE : This Ballast Case Must Be Grounded

Fulham Co., Inc extends limited warranty only to the original purchaser or to the first user for the period of **5 years** from the date of manufacture as indicated by the date code stamped on each product and when properly installed and under normal conditions of use. For additional warranty guide line, please refer to our Complete Product Catalog OR call Customer Service at 1-800-2-Fulham.

DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-800-2-fulham, Fax.: 1-323-754-9060. Website: [www.fulham.com](http://www.fulham.com) 02-2006-148-1 rev

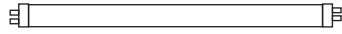


# SPECIFICATION SHEET : WHSG3-UNV-T8-HB

This Is An Original Product From Fulham Co., Inc

Description : WORKHORSE Specifier Grade Series Electronic Ballast, Drop In Replacement for Magnetic Ballast, Parallel Lamp Operation, THD Less Than 10%

**This Ballast Will Operate Following Lamps.**

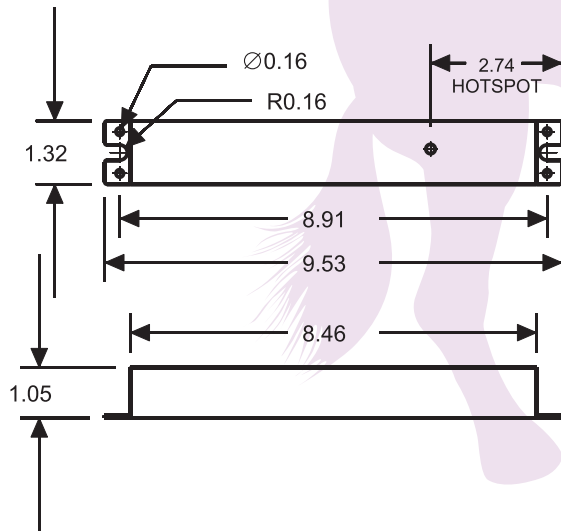


F17T8 / F25T8 / F32T8 / F40T8

## ELECTRICAL DATA (230V APPLICATION)

|                                 |  |       |       |       |       |       |   |   |   |
|---------------------------------|--|-------|-------|-------|-------|-------|---|---|---|
| INPUT VOLT: 230V ± 10%, 50/60Hz |  |       |       |       |       |       |   |   |   |
| LAMP WATTS/TYPE                 | F25T8                                  | F32T8 | F40T8 | F17T8 | F25T8 | F32T8 | - | - | - |
| LAMPS OPERATED                  | 2                                      |       |       | 3     |       |       |   |   |   |
| INPUT WATTS                     | 63                                     | 84    | 99    | 63    | 84    | 112   |   |   |   |
| LINE CURRENT:                   | 0.28                                   | 0.37  | 0.44  | 0.28  | 0.37  | 0.49  |   |   |   |
| POWER FACTOR                    | 0.98                                   | 0.98  | 0.99  | 0.98  | 0.99  | 0.99  |   |   |   |
| BALLAST FACTOR                  | 1.30                                   | 1.33  | 1.29  | 1.14  | 1.17  | 1.18  |   |   |   |
| EFFICACY FACTOR                 | 2.05                                   | 1.58  | 1.29  | 1.81  | 1.39  | 1.06  |   |   |   |
| THD                             | 7%                                     | 7%    | 7%    | 7%    | 6%    | 7%    |   |   |   |
| CURRENT CREST FACTOR            | < 1.7                                  |       |       |       |       |       |   |   |   |
| EMI/RFI COMPLIANCE              | FCC PART 18-A                          |       |       |       |       |       |   |   |   |
| SOUND RATING                    | " A "                                  |       |       |       |       |       |   |   |   |
| BALLAST TYPE                    | INSTANT START                          |       |       |       |       |       |   |   |   |
| VOLTAGE TRANSIENTS              | ANSI C82.11 - 1993                     |       |       |       |       |       |   |   |   |
| INPUT/PROTECTION                | FUSE                                   |       |       |       |       |       |   |   |   |
| OUTPUT/PROTECTION               | EOL                                    |       |       |       |       |       |   |   |   |
| MIN. OPERATING TEMP             | - 18 °C ( 0 ° F )                      |       |       |       |       |       |   |   |   |
| MAX. CASE TEMP                  | 70 °C ( 158 ° F )                      |       |       |       |       |       |   |   |   |
| TYPE "HL" APPROVAL              | APPROVED FOR HAZARDOUS LOCATION        |       |       |       |       |       |   |   |   |
| ENERGY STAR 4.0                 | -                                      |       |       |       |       |       |   |   |   |
| APPROVALS/CLASS                 | UL /cUL LISTED, CLASS " P ", 1 OUTDOOR |       |       |       |       |       |   |   |   |

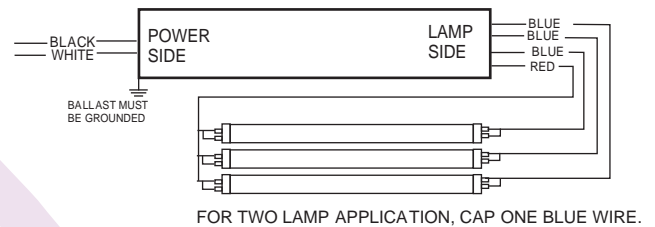
## MECHANICAL DATA



Where : L = Length, W = Width, H = Height

## WIRING DIAGRAMS

| WIRE            | BLACK   | WHITE   | RED     | BLUE    | YELLOW | BROWN |
|-----------------|---------|---------|---------|---------|--------|-------|
| LENGTH - INCHES | 25 ± 1" | 25 ± 1" | 46 ± 1" | 31 ± 1" |        |       |



NOTE : This Ballast Case Must Be Grounded

Fulham Co., Inc extends limited warranty only to the original purchaser or to the first user for the period of 5 years from the date of manufacture as indicated by the date code stamped on each product and when properly installed and under normal conditions of use. For additional warranty guide line, please refer to our Complete Product Catalog OR call Customer Service at 1-800-2-Fulham.

DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-800-2-fulham, Fax.: 1-323-754-9060. Website: [www.fulham.com](http://www.fulham.com) 02-2006-148-2 rev

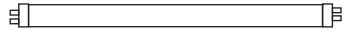


# SPECIFICATION SHEET : WHS3-UNV-T8-HB

This Is An Original Product From Fulham Co., Inc

Description : WORKHORSE Specifier Grade Series Electronic Ballast, Drop In Replacement for Magnetic Ballast, Parallel Lamp Operation, THD Less Than 10%

**This Ballast Will Operate Following Lamps.**

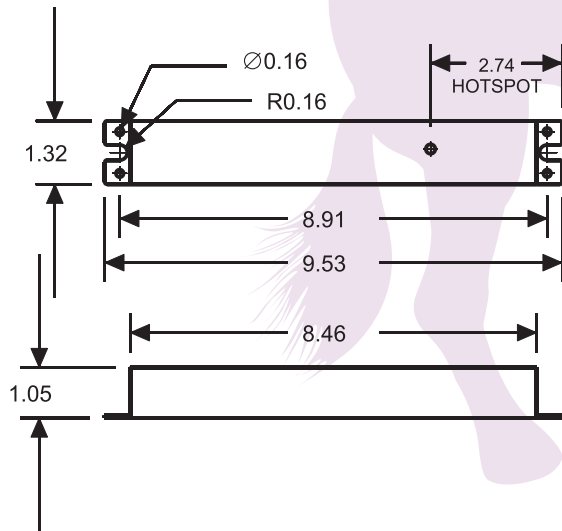


F17T8 / F25T8 / F32T8 / F40T8

## ELECTRICAL DATA (277V APPLICATION)

|                                 |  |       |       |       |       |       |   |   |   |
|---------------------------------|--|-------|-------|-------|-------|-------|---|---|---|
| INPUT VOLT: 277V ± 10%, 50/60Hz |  |       |       |       |       |       |   |   |   |
| LAMP WATTS/TYPE                 | F25T8                                  | F32T8 | F40T8 | F17T8 | F25T8 | F32T8 | - | - | - |
| LAMPS OPERATED                  | 2                                      |       |       | 3     |       |       |   |   |   |
| INPUT WATTS                     | 63                                     | 84    | 99    | 63    | 84    | 112   |   |   |   |
| LINE CURRENT:                   | 0.24                                   | 0.31  | 0.36  | 0.23  | 0.31  | 0.41  |   |   |   |
| POWER FACTOR                    | 0.96                                   | 0.97  | 0.98  | 0.97  | 0.98  | 0.99  |   |   |   |
| BALLAST FACTOR                  | 1.30                                   | 1.33  | 1.29  | 1.14  | 1.17  | 1.19  |   |   |   |
| EFFICACY FACTOR                 | 2.05                                   | 1.58  | 1.30  | 1.81  | 1.39  | 1.41  |   |   |   |
| THD                             | 9%                                     | 8%    | 8%    | 9%    | 8%    | 8%    |   |   |   |
| CURRENT CREST FACTOR            | < 1.7                                  |       |       |       |       |       |   |   |   |
| EMI/RFI COMPLIANCE              | FCC PART 18-A                          |       |       |       |       |       |   |   |   |
| SOUND RATING                    | " A "                                  |       |       |       |       |       |   |   |   |
| BALLAST TYPE                    | INSTANT START                          |       |       |       |       |       |   |   |   |
| VOLTAGE TRANSIENTS              | ANSI C82.11 - 1993                     |       |       |       |       |       |   |   |   |
| INPUT/PROTECTION                | FUSE                                   |       |       |       |       |       |   |   |   |
| OUTPUT/PROTECTION               | EOL                                    |       |       |       |       |       |   |   |   |
| MIN. OPERATING TEMP             | - 18 °C ( 0 ° F )                      |       |       |       |       |       |   |   |   |
| MAX. CASE TEMP                  | 70 °C ( 158 ° F )                      |       |       |       |       |       |   |   |   |
| TYPE "HL" APPROVAL              | APPROVED FOR HAZARDOUS LOCATION        |       |       |       |       |       |   |   |   |
| ENERGY STAR 4.0                 | -                                      |       |       |       |       |       |   |   |   |
| APPROVALS/CLASS                 | UL /cUL LISTED, CLASS " P ", 1 OUTDOOR |       |       |       |       |       |   |   |   |

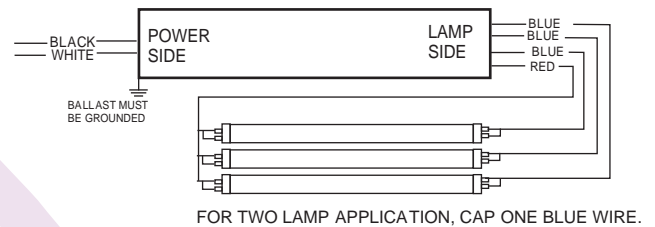
### MECHANICAL DATA



Where : L = Length, W = Width, H = Height

### WIRING DIAGRAMS

| WIRE            | BLACK   | WHITE   | RED     | BLUE    | YELLOW | BROWN |
|-----------------|---------|---------|---------|---------|--------|-------|
| LENGTH - INCHES | 25 ± 1" | 25 ± 1" | 46 ± 1" | 31 ± 1" |        |       |



NOTE : This Ballast Case Must Be Grounded

Fulham Co., Inc extends limited warranty only to the original purchaser or to the first user for the period of 5 years from the date of manufacture as indicated by the date code stamped on each product and when properly installed and under normal conditions of use. For additional warranty guide line, please refer to our Complete Product Catalog OR call Customer Service at 1-800-2-Fulham.

DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-800-2-fulham, Fax.: 1-323-754-9060. Website: [www.fulham.com](http://www.fulham.com) 02-2006-148-3 rev