T8 DUAL MODE : ELECTRONIC BALLAST COMPATIBLE

DESCRIPTION

LED T8 Dual Mode Replacement Lamps offer a versatile range of installation options on either line voltage or with select compatible electronic ballasts - single-ended or double-ended, with ballast, emergency battery, or direct line voltage.

Review all installation instructions and confirm use of a compatible ballast before installing Dual Mode lamps on an existing fluorescent ballast.

FEATURES

- Hybrid dual mode for use with electronic ballasts or direct line voltage
- Direct replacement for conventional linear fluorescent tubes
- Single- or Double-End powered when operated on line voltage
- Up to 80% energy savings
- Ultra-high performance LED delivers >150 lpw
- Suitable for use in totally enclosed fixtures
- Compatible with select emergency battery backup
- Does not operate on magnetic ballasts
- Does not operate on T12 ballasts
- UL 1598C listed
- Compatible with select electronic ballasts or direct line voltage 120-277V
- Visit eiko.com to view complete ballast compatibility information

WARRANTY

- 5 year limited warranty; see eiko.com for warranty details

APPLICATIONS

- Highbays
- Troffers
- Industrial Strips
- Cove Lighting
- Warehouses
- Stairwells
- Cold Storage



PERFORMANCE	Bare Lamp Wattage	12W
	System Wattage	14W
	Lumens	1,800
	Efficacy (LPW)	150
	CRI	80+
	CCT	3500K, 4000K, 5000K
	Life (L70)	50,000 hours
ELECTRICAL	Power Factor	≥0.9
	THD	<20%
	Input Voltage	120-277V
CONSTRUCTION	Operating Temperature	-4°F to 113°F (-20°C to 45°C)
	Base	G13
LISTINGS	Certification(s)	DesignLights Consortium® Qualified; cULus Listed
	Material Usage	RoHS Compliant; no mercury or lead
	Environment	UL Listed for damp locations

PERFORMANCE SUMMARY

Order Code	Item #	Length	Lumens	Bare Lamp Watts*	System Watts*	Volts Ballast Dependent	CCT	CRI	Glass Tube	Beam	Life/ Hours
11264	LED12WT8/48/835-G9DM	4′	1,800	12W	14W	120-277V	3500K	80+	Frosted	190°	50,000
11265	LED12WT8/48/840-G9DM	4′	1,800	12W	14W	120-277V	4000K	80+	Frosted	190°	50,000
11266	LED12WT8/48/850-G9DM	4′	1,800	12W	14W	120-277V	5000K	80+	Frosted	190°	50,000

*NOTE: Use order code when ordering. * Lamp consumes 12 watts when operated on line voltage. System wattage is 14 watts per lamp when operated on ballast.*

WIRING DIAGRAMS FOR LINE VOLTAGE OPERATION



OPTION 1: Connecting AC line voltage to a non-shunted socket on only one end (single-ended mode). Bring line and neutral to pins “N1” and “L.” Do not connect “N2” and “N3” - damage may result.



OPTION 2: Connecting AC line voltage to non-shunted sockets on both ends (double-ended mode). Bring line to both “N1” and “L.” Bring neutral to both “N2” and “N3.”



OPTION 3: Connecting AC line voltage to shunted sockets on both ends (double-ended mode). Bring line to N1/L side and neutral to N2/N3 side.

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BALLAST COMPATIBILITY

Manufacturer	Part Number	Start Method	Volts	# of Lamps	BF		Number of Lamps					
							N			N-1		
					Type	Value	120	277	347	120	277	347
ADVANCE	GOPA-2P32-SC	IS	347	2	N	0.88	NT	NT	✔	NT	NT	✔
ADVANCE	GOPA-4P32-LW-SC	IS	347	4	N	0.88	NT	NT	✘	NT	NT	✔
ADVANCE	GOPA-4P32-SC	IS	347	4	N	0.88	NT	NT	✔	NT	NT	✔
ADVANCE	ICN-1P32-N	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
ADVANCE	ICN2P16HLTLEDSC	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
ADVANCE	ICN2P16TLEDN	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	ICN-2P32-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	ICN3P16TLEDN	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	ICN-3P32-N	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	ICN4P16HLTLEDSC	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
ADVANCE	ICN4P16TLEDN	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	ICN-4P32-N	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOP-2P32-HL-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOP-2P32-LW-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOP-2P32-N	IS	120-277	2	N	0.88	✔	✘	NT	✔	✔	NT
ADVANCE	IOP-4P32-HL-SC	IS	120-277	4	N	0.88	✘	✘	NT	✘	✘	NT
ADVANCE	IOP-4P32-N	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-1P32-HL-N	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
ADVANCE	IOPA-1P32-LW-N	IS	120-277	1	N	0.88	✔	✘	NT	NT	NT	NT
ADVANCE	IOPA-1P32-N	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
ADVANCE	IOPA-2P32-HL-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-2P32-LW-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-2P32-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-3P32-LW-N	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-3P32-N	IS	120-277	3	N	0.86	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-4P32-HL-SC	IS	120-277	4	N	0.88	✔	✘	NT	✔	✘	NT
ADVANCE	IOPA-4P32-LW-N	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IOPA-4P32-N	IS	120-277	4	N	0.86	✔	✔	NT	✔	✔	NT
ADVANCE	IZT-2P16-TLED-SC	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	IZT-4P16-TLED-SC	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ADVANCE	REB-2P32-N	IS	120	2	N	0.88	✔	NT	NT	✔	NT	NT
ADVANCE	REB-2P32-SC	IS	120	2	N	0.88	✔	NT	NT	✔	NT	NT
ADVANCE	REB-4P32-SC	IS	120	4	N	0.88	✔	NT	NT	✔	NT	NT
ESPEN	VE232MVHIPE	IS	120-277	2	N	0.89	✔	✔	NT	✔	✔	NT
ESPEN	VE232MVHIPLE	IS	120-277	2			✔	✔	NT	✔	✔	NT
FULHAM	WHSG3-UNV-T8-IS	IS	120-277	3	N	0.99	✔	✔	NT	✔	✔	NT
FULHAM	WHSG4-UNV-T8-IS	IS	120-277	4	N	0.96	✔	✔	NT	✔	✔	NT
GE	GE132MAX-HNTULTRA	IS	120-277	1	H	1.18	✘	✘	NT	NT	NT	NT
GE	GE132MAX-LNTULTRA	IS	120-277	1	L	0.77	✔	✔	NT	NT	NT	NT
GE	GE132MAX-NNTULTRA	IS	120-277	1	N	0.87	✘	✘	NT	NT	NT	NT
GE	GE132MAXP-LNTULTRA	IS	120-277	1	L	0.78	✔	✔	NT	NT	NT	NT
GE	GE132MAXP-NNTULTRA	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
GE	GE232-120RES-DIY	IS	120	2	N	0.88	✘	NT	NT	✘	NT	NT
GE	GE232MAX-HNTULTRA	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
GE	GE232MAX-LNTULTRA	IS	120-277	2	L	0.77	✔	✔	NT	✔	✔	NT
GE	GE232MAX-NNTULTRA	IS	120-277	2	N	0.87	✔	✔	NT	✔	✔	NT
GE	GE232MAXP-LNTULTRA	IS	120-277	2	L	0.77	✔	✔	NT	✘	✘	NT
GE	GE232MAXP-NNTULTRA	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
GE	GE-232-MV-N-DIY	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
GE	GE332MAX-NNTULTRA	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
GE	GE332MAXP-HNTULTRA	IS	120-277	3	H	1.18	✔	✔	NT	✔	✔	NT
GE	GE332MAXP-LNTULTRA	IS	120-277	3	L	0.78	✔	✔	NT	✔	✔	NT
GE	GE332MAXP-NNTULTRA	IS	120-277	3	N	0.89	✔	✔	NT	✔	✔	NT
GE	GE432MAX347-N	IS	347	4	N	0.88	NT	NT	✔	NT	NT	✔
GE	GE432MAX-NNTULTRA	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
GE	GE432MAXP-HNTULTRA	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
GE	GE432MAXP-LNTULTRA	IS	120-277	4	L	0.78	✔	✔	NT	✔	✔	NT
GE	GE432MAXP-NNTULTRA	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT

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BALLAST COMPATIBILITY

Manufacturer	Part Number	Start Method	Volts	# of Lamps	BF		Number of Lamps					
							N			N-1		
					Type	Value	120	277	347	120	277	347
GE	GE-432-MV-N-DIY	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
HALCO	EP232ISNTHNTMVNTHE	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
HALCO	EP232ISNTLNTMVNTHE	IS	120-277	2	L	0.78	✔	✔	NT	✔	✔	NT
HALCO	EP332ISNTLNTMVNTHE	IS	120-277	3	L	0.78	✔	✔	NT	✔	✔	NT
HALCO	EP332ISNTMVNTHE	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
HALCO	EP432ISNTMVNTHE	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EP3NT32ISNTMVNTMCNTHE	IS	120-277	3	N	0.87	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EP4NT32ISNTMVNTMCNTHE	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPH2NT32ISNTMVNTMCNTHE	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPH3NT32ISNTMVNTMCNTHE	IS	120-277	3	H	1.18	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPH4NT32ISNTMVNTSCNTHE	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPL2NT32ISNTMVNTMCNTHE	IS	120-277	2	L	0.78	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPL3NT32ISNTMVNTSCNTHE	IS	120-277	3	L	0.78	✔	✔	NT	✔	✔	NT
HOWARD INDUSTRIES	EPL4NT32ISNTMVNTMCNTHE	IS	120-277	4	L	0.78	✔	✔	NT	✔	✔	NT
KEYSTONE	KTEB-232-UV-IS-H-P	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
KEYSTONE	KTEB-232-UV-IS-N-P	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
KEYSTONE	KTEB-332-UV-IS-H-P	IS	120-277	3	H	1.18	✔	✔	NT	✔	✔	NT
KEYSTONE	KTEB-332-UV-IS-N-P	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
KEYSTONE	KTEB-432-UV-IS-L-P	IS	120-277	4	L	0.78	✔	✔	NT	✔	✔	NT
MAXLITE	MLEU324HENTSC	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
MAXLITE	SKEU324HENTSC	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 1×32T8NTUNV ISH-SC	IS	120-277	1	H	1.18	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 1X32T8NTUNV ISH HT SC	IS	120-277	1	H	1.18	✔	✔	NT	NT	NT	NT
SYLVANIA OSRAM	QHE 1x32T8NTUNV ISL-SC	IS	120-277	1	L	0.78	✔	✔	NT	NT	NT	NT
SYLVANIA OSRAM	QHE 1x32T8NTUNV ISN-SC	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
SYLVANIA OSRAM	QHE 2×32T8NTUNV ISH-SC	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 2×32T8NTUNV ISL-SC	IS	120-277	2	L	0.78	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 2X32T8NTUNV ISH HT SC	IS	120-277	2	H	1.18	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 2X32T8NTUNV ISN-SC	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 3×32T8NTUNV ISL-SC	IS	120-277	3	L	0.78	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 3×32T8NTUNV ISN-SC	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 3x32T8NTUNV ISL-SC-1	IS	120-277	3	L	0.78	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 3x32T8NTUNV ISN-SC-1	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 4×32T8NTUNV ISL-SC	IS	120-277	4	L	0.78	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 4X32T8NT347 ISN-SC	IS	347	4	N	0.88	NT	NT	✔	NT	NT	✔
SYLVANIA OSRAM	QHE 4x32T8NTUNV ISH	IS	120-277	4	H	1.18	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 4x32T8NTUNV ISL-SC-1	IS	120-277	4	L	0.78	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 4X32T8NTUNV ISN-SC	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QHE 4x32T8NTUNV ISN-SC-1	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QTP 1X32T8NTUNV ISN-SC	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
SYLVANIA OSRAM	QTP 2X32T8NT347 ISN-SC	IS	347	2	N	0.88	NT	NT	✔	NT	NT	✔
SYLVANIA OSRAM	QTP 2X32T8NTUNV ISN-SC	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QTP 3X32T8NTUNV ISN-SC	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
SYLVANIA OSRAM	QTP 4X32T8NTUNV ISN-SC	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
ULTRA SAVE	UT232347	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
ULTRA SAVE	UT432347	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B132IUNVHE-A	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
UNIVERSAL TRIAD	B132IUNVHP-N	IS	120-277	1	N	0.88	✔	✔	NT	NT	NT	NT
UNIVERSAL TRIAD	B232IUNVEL-A	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B232IUNVHE-A	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B232IUNVHEH-A	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B232IUNVHP-N	IS	120-277	2	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B332IUNVEL-A	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B332IUNVHE-A	IS	120-277	3	N	0.95	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B332IUNVHP-A	IS	120-277	3	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B432IUNVEL-A	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B432IUNVHE-A	IS	120-277	4	N	0.9	✔	✔	NT	✔	✔	NT
UNIVERSAL TRIAD	B432IUNVHP-A	IS	120-277	4	N	0.88	✔	✔	NT	✔	✔	NT

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