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T5 lighting TechniTwin

TECHNICAL SPECIFICATONS
INSTRUCTION SHEET
AND USER GUIDE

Lightweight and easy to install, linkable TechniTwin fixtures feature an electronic ballast and T5 lamps which saves up to 30% over conventional fluorescent fixtures.

Features and Benefits

Ballasts:

- Designed to match each lamp, our electronic ballasts are integral to each fixture.
- Available in indoor or outdoor use.
- Available in high efficiency and high output.
- End of life shutdown
- No extra wiring required!

Fixtures:

- Lamp spacing available in 4", 6" (standard) and 8" centres.
- Thin profiled fixtures easily allow signs to meet all ADA and "barrier free" sign requirements.
- Designed and manufactured in Canada to North American standards.

Lamps:

- Energy efficient super-thin fluorescent lighting with the highest lumen output per watt of any fluorescent lamp.
- Our lamps provide the best maintained lumens over the life of the unit.
- 5/8" diameter T5 lamp is available from all North American manufacturers providing fast and easy replacement.
- Long lamp life with starts as low as -15 degrees C.
- Having a high CRI, our lamps are available in 830ww, 835w, 841cw and 865 daylight colours.



The T5 Lighting Advantage

T5 fluorescent lamps are thinner, more efficient and offer a higher intensity of light output than T8 or T12 lamps and the narrower profile means that the lamps provide designers with better optical control and better energy efficiency. In addition, the lamps are designed to provide maximum light output at an ambient temperature of 95° F rather than the 77° F design point for most other lamps. Those characteristics allow the use of the lamps in more compact fixtures and signs than would otherwise be possible. T5s are often applied in low-profile signs and low-profile light fixtures, such as those used for cove lighting and illuminating display cases. Indirect and indirect/direct fixtures also often feature T5 lamps—the thinness and high intensity of the lamps enable designers to place fixtures farther apart

than is possible with T8 lamps, as well as allowing for thinner signs. T5 lamps offer better lumen-maintenance performance than T8 lamps. The T5 lamps retain about 95 percent of their output after 40 percent of their rated life, compared with less than 90 percent for T8 lamps. The smaller size is an advantage at the end of lamp life as well, since T5s contain less mercury and less glass than T8 lamps.



- ▶ SPECIFICATIONS
- ADVANTAGES
- APPLICATIONS

Specifications TechniTwin

SPECIFICATIONS

Fixture Type	T5 – Straight – Avg. nominal lengths (inches) 7, 10, 13, 22, 23, 35, 47, 59 for both standard and high output
Number of Lamps	1 or 2 lamps (on a single extrusion)
Line Voltage	12, 120, 220/240 and 347 V
Power Factor	Normal
Sound Rating	< Class A noise level
Starting Temperature	meets lamp rating
High Frequency Operation	> 25 KHz
Input Frequency	50/60 Hz
Transient Protection	yes
End of Life Protection	yes
EMI filter /	
RFI Noise Suppression	Optionally available
Thermal Protection	Designed in circuit

- Available in 1 or 2 lamp models providing easy layout and no hot spots
- Daisy chain linking
- Variety of sizes ranging from 7"- 5' fits in most signs, saving you space and money
- Available corded or hardwire; great for any industrial or commercial application
- Ease of installation, saving you time and money
- Peace of mind, our 1.800.730.5853 toll free help and info line provides instant site to manufacturer help, saving you time and money

ADVANTAGES

- Electronic – discrete mount technology
- Chip controlled circuit
- End of lamp life circuit protection
- UL and cUL listed as a component and combined with our fixtures
- 100% of ballasts tested for acceptable parameter range / input amps/ lamp amps and frequency and 10 starts
- Ballast life 100,000 hours
- 1 year ballast warranty (entire fixture replaced)
- Cool run, long life, electronic ballast and T5 lamps save you up to 30% over conventional fluorescent, lowering your maintenance costs
- Versatility - use different twins in one sign
- Design build application - suitable for a variety of applications

APPLICATIONS

- indoor and outdoor signage
- ceiling lighting—troffer retrofit
- cash wraps
- trade shows and exhibits
- commercial spaces
- wall wash
- display lighting



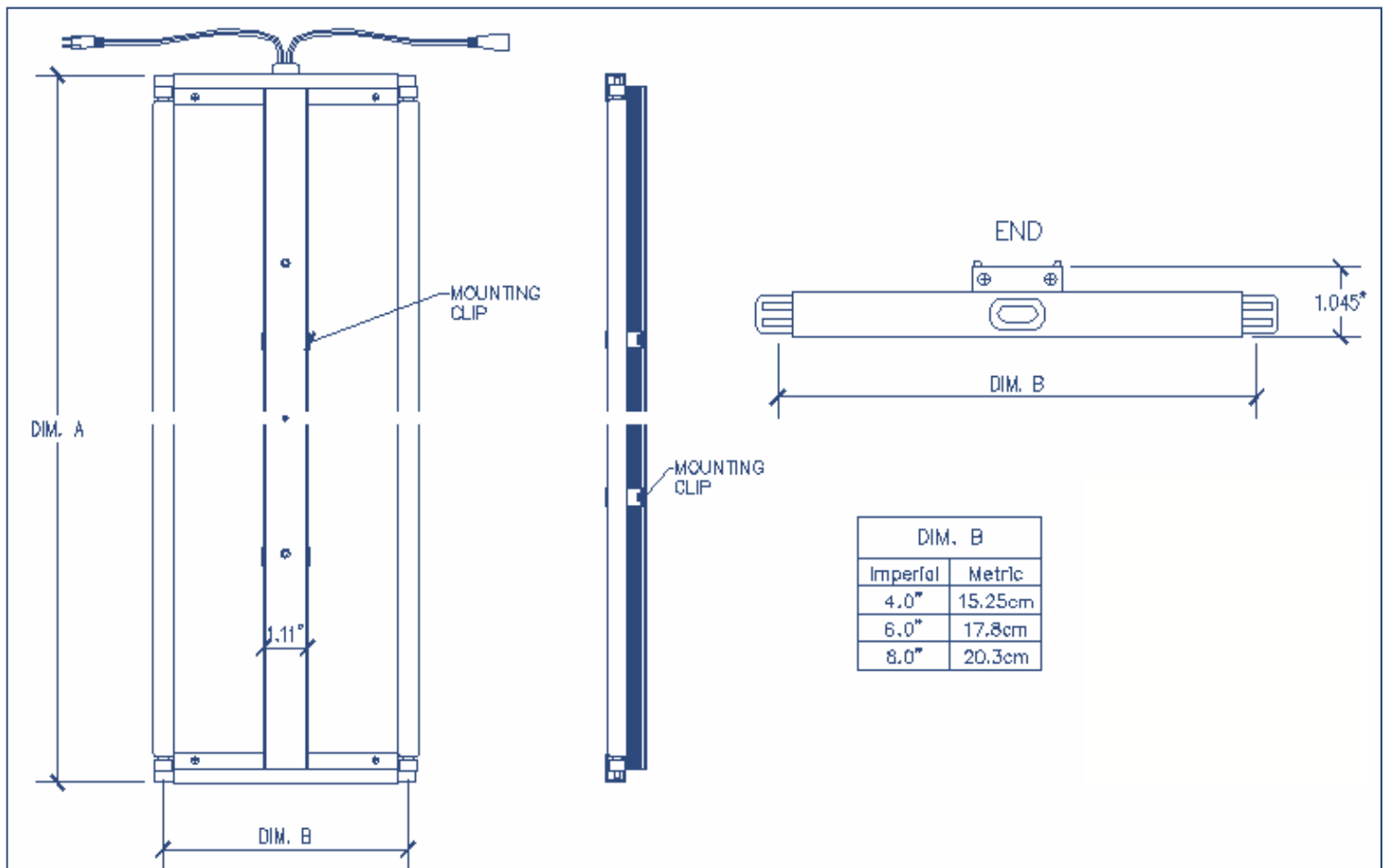


▶ CUT SHEET
WATTAGES
HERTZ
AMPS

Specifications TechniTwin

CUT SHEET

Wattage	amps (hertz 60 Hz or 50 Hz)			length (dimension "A")
	120v	220v	347v	
2 x 4w	0.20	-	-	06.50"
2 x 6w	0.26	-	-	09.62"
2 x 8w	0.30	-	-	12.62"
2 x 13w	0.46	-	-	21.62"
2 x 14w	0.50	-	.162	22.62"
2 x 21w	0.65	0.20	.193	34.62"
2 x 28w	0.94	0.43	.295	46.50"
2 x 35w	1.40	0.59	.348	58.25"
High output:				
2 x 24w	0.66	0.32	.330	22.62"
2 x 39w	1.10	0.51	.470	34.62"
2 x 54w	1.55	0.75	.640	46.50"
2 x 80w	2.40	1.30	.940	58.25"





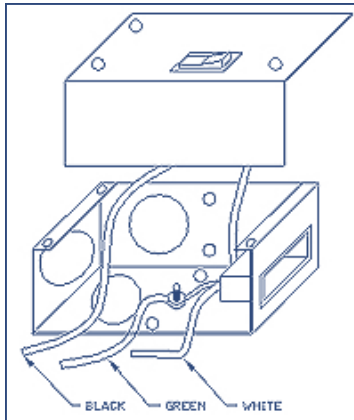
► INSTALLATION INSTRUCTIONS
LAMP REPLACEMENT
PARTS AND SERVICE

Use and Care TechniTwin

INSTALLATION

Tools required: drill, 3/16" bit, #6 flat head screw (or similar fastener) flat head screwdriver

1. Determine the centrelines of each TechniTwin, maintaining the 4", 6", and 8" on centre lamp spacing. (nominal 8", 12" and 16" centrelines)
2. Drill two 3/16" holes on the centerlines and apart by 1/2 the overall length of the fixture perpendicular to the centreline.
3. Install the spring clips (supplied) by 3/16" flush rivet or other suitable fastening device such as a #6 flat head screw over each hole located on the centerlines.
4. Install the fixture into spring clip ensuring a snap-lock connection.
5. As each fixture has a male and female connector, electrical work is then accomplished by linking these connectors beginning with the power input which must be strain relieved through the finished sign and fed into the TLTB (transition box - supplied). The TLTB has a connect plug ready to marry to the Twin. Daisy chain linking capabilities: a maximum of 20' of fixtures (12' on High Output) can be joined together.

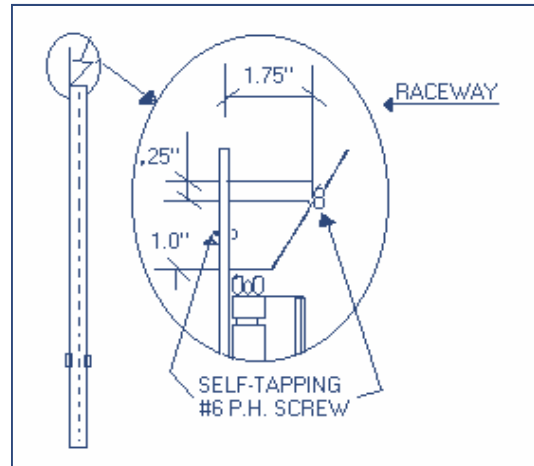
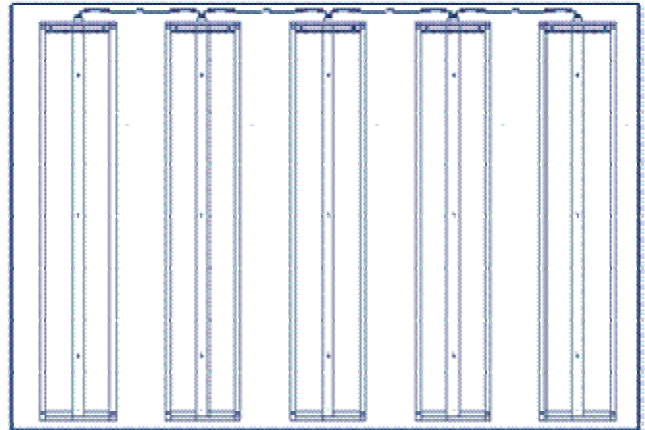


Note: To ensure bonding/grounding each completed sign must be hi-pot tested. Should the considerable contacts of metal to metal throughout the unit fail the hi-pot test, and then simply install a 3/8 X #6 self-tapping screw with a serrated washer in the hole on the socket holder through the back-pan.

Caution: A Hi-pot test procedure must be done with one Hi-pot lead attached to both the power (black) and the neutral (white) and the other Hi-pot lead attached to the ground (green). A Hi-pot test across the power and neutral will cause the electronic ballast to fail and will void any warranty. *Do not drill into any portion of the ballast or socket raceways.*

LAMP REPLACEMENT

Ensure power is off, and then remove lamp by rotating it 90°, unlocking it from the fixture. Replace



lamp with same wattage, and lock into place by rotating the lamp 90°.

PARTS AND SERVICE

We pride ourselves in our commitment to quality and reliability in all of our products, and all TechniTwin fixture are warranted to be free of defect in workmanship.

Ballasts are not designed to be replaceable, replacement of whole fixture is required. Replacement lamps are available directly from TechniLite Systems by calling 1.800.730.5853.