

TRACK ADAPTER DRIVER / DALI-2

ARVIK TRACK 30 DALI

Technical model: AR-30-750-TR-DALI-A-6



POWER

30 W

OUTPUT CURRENT

100-750 mA

OUTPUT VOLTAGE

10-40 VDC

CONTROL

DALI-2
KEY FEATURES

-  Isolated
-  Flicker-free
-  DALI-2
-  5-year warranty

Efficiency	up to 85%
Dimensions	217.8 x 31.1 x 42.2 mm
Installation	Track adapter
Protection	IP20 / Class II / SELV
Input	220-240 VAC / 50-60 Hz

Technical specifications apply to the stated ARVIK model. Before implementation, confirm the selected variant, operating conditions and document revision.

PRODUCT DATASHEET

AR-30-750-TR-DALI-A-6

A

ARVIK

ARVIK | TECHNICAL DOCUMENTATION



- Feature
- Isolated Led Driver

- Flick free

- Complete protections: OSP / OVP /OPP

- Standby power consumption < 0.45W

- It can be used for lighting equipment in protection class I I

- 5 year warranty



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency Typical	Output Voltage	No load Voltage
AR-30-750-TR-DALI-A-6	100mA	0.05A	5.33W	1.00-4.0W	0.54-0.80	75%	10-40V	59Vdc
	150mA	0.06A	7.79W	1.50-6.0W	0.56-0.81	77%	10-40V	
	200mA	0.07A	10.26W	2.00-8.0W	0.59-0.82	78%	10-40V	
	250mA	0.08A	12.82W	2.50-10.0W	0.63-0.83	78%	10-40V	
	300mA	0.09A	15.19W	3.00-12.0W	0.65-0.84	79%	10-40V	
	350mA	0.10A	17.28W	3.50-14.0W	0.68-0.85	81%	10-40V	
	400mA	0.11A	20.00W	4.00-16.0W	0.71-0.86	80%	10-40V	
	450mA	0.12A	22.22W	4.50-18.0W	0.74-0.87	81%	10-40V	
	500mA	0.13A	24.39W	5.00-20.0W	0.76-0.88	82%	10-40V	
	550mA	0.14A	26.83W	5.50-22.0W	0.82-0.89	82%	10-40V	
	600mA	0.15A	28.92W	6.00-24.0W	0.83-0.90	83%	10-40V	
	650mA	0.16A	30.95W	6.50-26.0W	0.84-0.90	84%	10-40V	
	700mA	0.17A	33.33W	7.00-28.0W	0.86-0.90	84%	10-40V	
	750mA	0.18A	35.29W	7.50-30.0W	0.87-0.90	85%	10-40V	

* Test result @230V, 50Hz, Full Load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Amplitude (DALI-2)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II (compatible Class I)
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.18A (230VAC, full load)
	Input Power	≤35.29W (230VAC, full load)
	Power Factor	≥0.90 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.45W @230VAC (DIM to off)
	Inrush Current	≤8.5A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	22pcs/type A ;36pcs/type B ; 58pcs/type C @ 230Vac
	Connected quantity of 13A Breaker	29pcs/type A ;47pcs/type B ; 76pcs/type C @ 230Vac
Output	Output Voltage Range	10-40VDC
	Output Current	100mA-750mA (Max.output) , Factory set current of 100mA
	Efficiency	≥85% (230VAC, full load)
	Max. Output Power:	59VDC Max
	LF Current Ripple (< 120 Hz)	±3% (Imax-Imin)/(Imax+Imin) MAX
	Current Accuracy	±5%
	Starting Time (AC mode)	≤0.8S (230VAC, full load,by DALI system)
	PstLM	≤1
	SVM	≤0.4
	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length:20m,same port of DALI)
Control Method	DALI function	DALI dimming (Max. lead wire length:300m) logarithm or linear dimming curve selectable
	Dimming range	DALI dimming: 1%-100%
	PUSH-button	Max parallel connections qty for Push-dim 15
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery(not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 700μA, I/P to O/P or I/P @230V input
Environment	Ta/Operation Temperature	-25....+35℃

	Ts/Storage Temperature	-25....+75℃
	Tc/Enclosure Temperature	75℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.5-1.5□
	Dimension	217.8*31.1*42.2mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020;EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN IEC 61000-3-3:2013+A1:2019;
	DALI performance	EN 62386-101 (DALI-2),EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part 251, 252, 253)
	Performance	EN62384
	Surge	L-N:1kV
	RoHS	complied to 2011/65/EU
Others	Life Time	50000h Tc=75℃
		75000h Tc=70℃
		100000h Tc=65℃
	Warranty	5years , F.R. < 10000ppm

Remark:

- 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
- 2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- 3.During the PUSH DIM test,the number of parallel connections must be less than 15PCS.

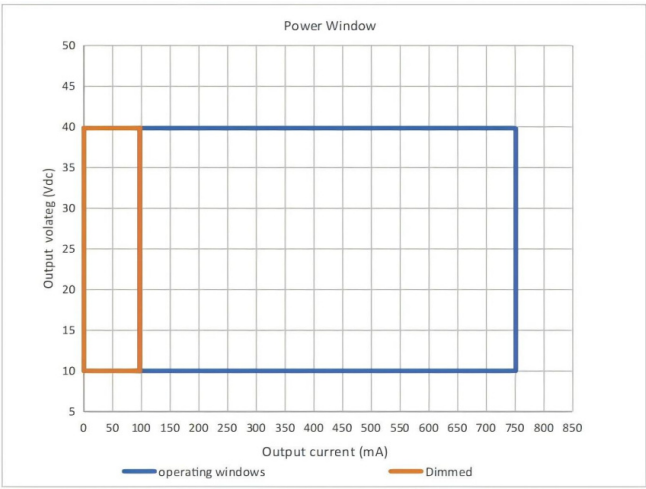
2. Output Current Setting

Output Current	1	2	3	4
100mA	-	-	-	-
150mA	-	-	-	ON
200mA	-	-	ON	-
250mA	-	-	ON	ON
300mA	-	ON	-	-
350mA	-	ON	-	ON
400mA	-	ON	ON	-
450mA	-	ON	ON	ON
500mA	ON	-	-	-
550mA	ON	-	-	ON
600mA	ON	-	ON	-
650mA	ON	-	ON	ON
700mA	ON	ON	-	-
750mA	ON	ON	-	ON

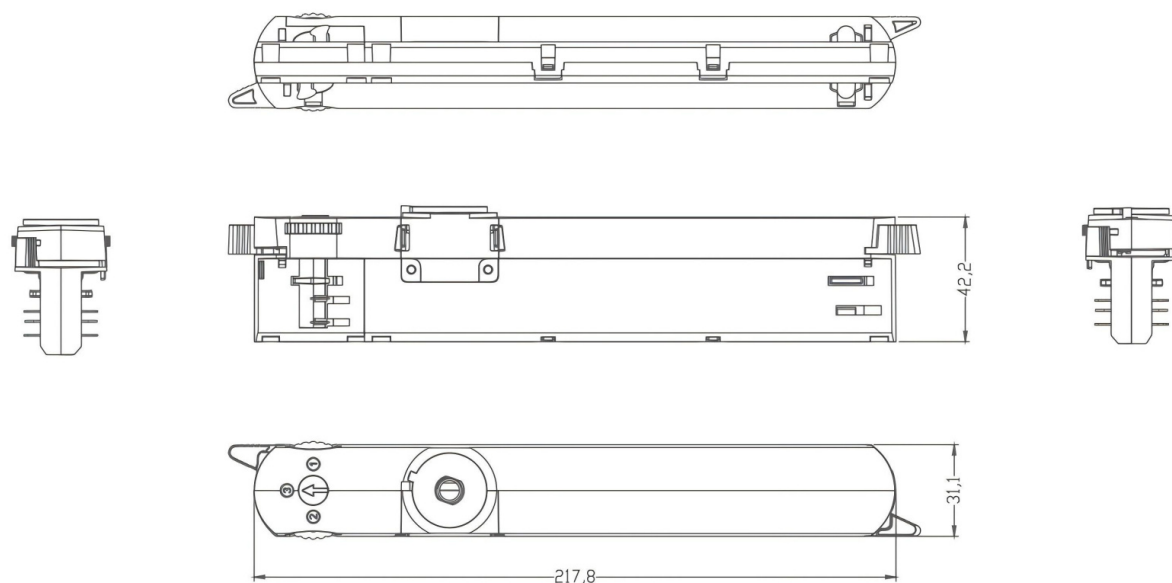
3. Label

ARVIK LED Dimmable Driver		<table><tr><th>Pout [W]</th><th>Iout [mA]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th></tr><tr><td>4.0</td><td>100</td><td>0.54C-0.80C</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>6.0</td><td>150</td><td>0.56C-0.81C</td><td>-</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>8.0</td><td>200</td><td>0.59C-0.82C</td><td>-</td><td>-</td><td>ON</td><td>-</td></tr><tr><td>10.0</td><td>250</td><td>0.63C-0.83C</td><td>-</td><td>-</td><td>ON</td><td>ON</td></tr><tr><td>12.0</td><td>300</td><td>0.65C-0.84C</td><td>-</td><td>ON</td><td>-</td><td>-</td></tr><tr><td>14.0</td><td>350</td><td>0.68C-0.85C</td><td>-</td><td>ON</td><td>-</td><td>ON</td></tr><tr><td>16.0</td><td>400</td><td>0.71C-0.86C</td><td>-</td><td>ON</td><td>ON</td><td>-</td></tr></table>							Pout [W]	Iout [mA]	λ	1	2	3	4	4.0	100	0.54C-0.80C	-	-	-	-	6.0	150	0.56C-0.81C	-	-	-	ON	8.0	200	0.59C-0.82C	-	-	ON	-	10.0	250	0.63C-0.83C	-	-	ON	ON	12.0	300	0.65C-0.84C	-	ON	-	-	14.0	350	0.68C-0.85C	-	ON	-	ON	16.0	400	0.71C-0.86C	-	ON	ON	-	<table><tr><th>Pout [W]</th><th>Iout [mA]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th></tr><tr><td>18.0</td><td>450</td><td>0.74C-0.87C</td><td>-</td><td>ON</td><td>ON</td><td>ON</td></tr><tr><td>20.0</td><td>500</td><td>0.76C-0.88C</td><td>ON</td><td>-</td><td>-</td><td>-</td></tr><tr><td>22.0</td><td>550</td><td>0.82C-0.89C</td><td>ON</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>24.0</td><td>600</td><td>0.83C-0.90C</td><td>ON</td><td>-</td><td>ON</td><td>-</td></tr><tr><td>26.0</td><td>650</td><td>0.84C-0.90C</td><td>ON</td><td>-</td><td>ON</td><td>ON</td></tr><tr><td>28.0</td><td>700</td><td>0.86C-0.90C</td><td>ON</td><td>ON</td><td>-</td><td>-</td></tr><tr><td>30.0</td><td>750</td><td>0.87C-0.90C</td><td>ON</td><td>ON</td><td>-</td><td>ON</td></tr></table>							Pout [W]	Iout [mA]	λ	1	2	3	4	18.0	450	0.74C-0.87C	-	ON	ON	ON	20.0	500	0.76C-0.88C	ON	-	-	-	22.0	550	0.82C-0.89C	ON	-	-	ON	24.0	600	0.83C-0.90C	ON	-	ON	-	26.0	650	0.84C-0.90C	ON	-	ON	ON	28.0	700	0.86C-0.90C	ON	ON	-	-	30.0	750	0.87C-0.90C	ON	ON	-	ON	AR-30-750-TR-DALI-A-6 For LED modules only • Constant Current Lighting track adaptors PRI:220-240VAC 50/60Hz Max. 0.18A SEC:100-750mA 10-40VDC U-OUT:59VDC Max. 30.0W Fmax. 50N+		        1 2 3 4 OFF	
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4. Electrical values

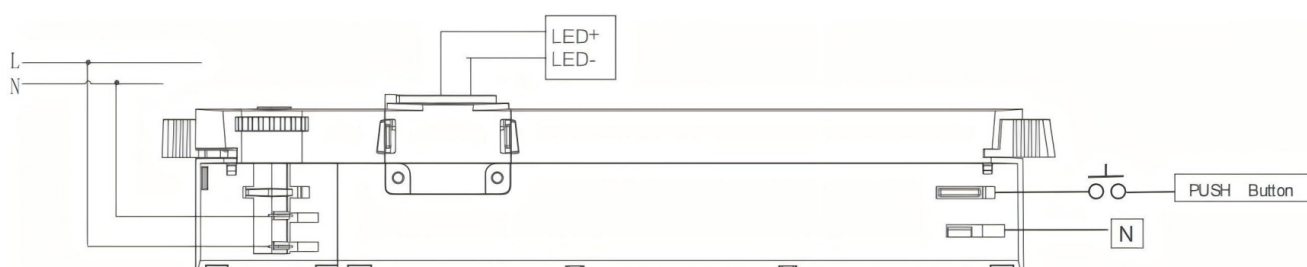
Operating power windows  The graph, titled 'Power Window', plots Output voltage (Vdc) on the y-axis (ranging from 5 to 50) against Output current (mA) on the x-axis (ranging from 0 to 850). It features two rectangular operating windows: a blue 'operating windows' window spanning from 100 mA to 750 mA and 10 Vdc to 40 Vdc, and an orange 'Dimmed' window spanning from 0 mA to 100 mA and 10 Vdc to 40 Vdc.	Efficiency v.s. Load TBD
PF v.s. Load TBD	THD v.s. Load TBD
Life time TBD	Derating TBD

5. Dimension (Unit: mm)

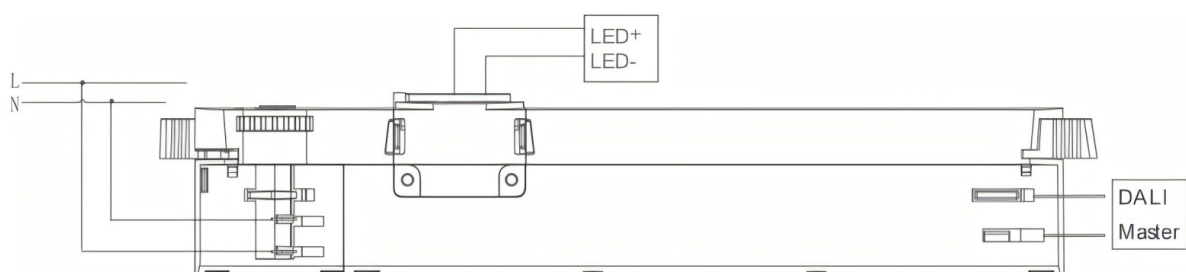


6. Wiring Diagram

Push Dimming



DALI Dimming



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
395*295*125	50	0.118	5.93	6.56

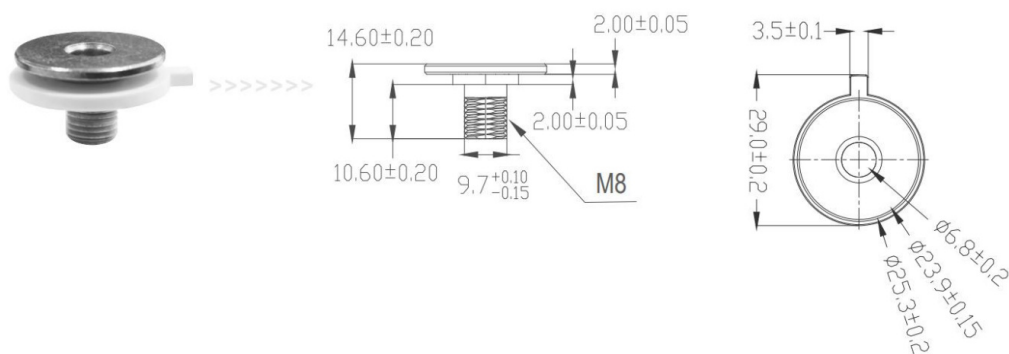
***The details shall be subject to the shipping package.**

8. Lamp Screw Type

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- aluminium, black, white
- further on request

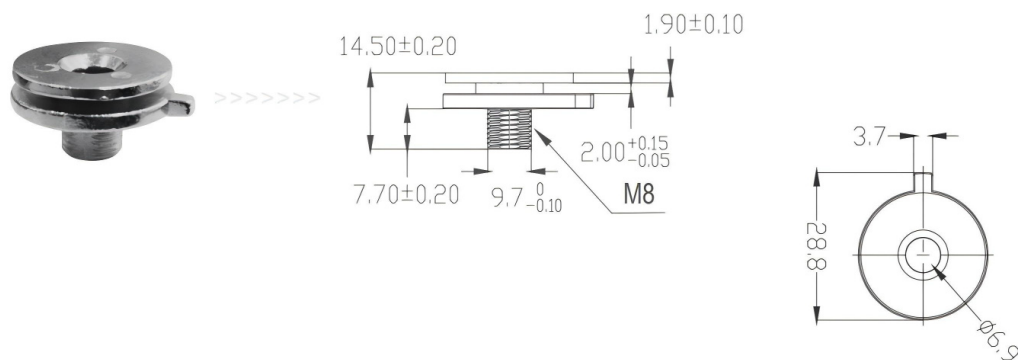
Ordering data 1

M10X1X8 (White)



Ordering data 1

M10X1X8 (Primary color)



9. Suitable for following tracks

Serial number	Brand	Track model
1	Global	XTS 4&XTSF 4
2	Stucchi	9000XX Series
3	Eutrac	2510x
4	Unipro	T32B
5	Lvela	7501

10. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc

11. REVISION HISTORY

DATE	VER	REMARK
2025-06-17	V1.0	Initial release.