

## LED MODULES FOR MAINS VOLTAGE

DRIVER-ON-BOARD  
TECHNOLOGY



## LED MODULES READYLINE C

### **Built-in LED modules with integrated driver for direct connection to mains voltage**

With so-called Driver-on-Board technology (DoB), the control gear unit is directly integrated into the LED module, which permits direct connection to mains voltage (220–240 V, 50–60 Hz).

The built-in LED modules of the ReadyLine series are suitable for residential and furniture lighting, as a replacement for halogen, energy-saving compact fluorescent lamps.

### **Advantages at a glance**

- Direct connection to mains voltage
- Protection cover to prevent electrical shock
- More flexible space-saving luminaire designs due to absence of driver
- Direct replacement for conventional lamps in existing luminaires
- High power factor: > 0.9
- Long service life: up to 50,000 hours

### **Technical notes**

Mains voltage: 220–240 V, 50/60 Hz  
Aluminium PCB for optimum thermal management  
Heat sink made of thermoconductive resin  
or co-moulded heat sink made of thermoconductive resin and aluminium  
Protection cover: PC, UV-glued  
or rivetted (module with heat sink)  
RFI suppressed

### **Typical applications**

- Replacement for compact fluorescent lamps
- Integration in luminaires
- Residential lighting
- Architectural lighting
- Retail lighting
- Furniture lighting

## ReadyLine C 10

### Technical notes

Power factor: > 0.97

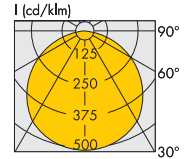
Dimensions: Ø 100 mm,

Ø 120 mm with heat sink

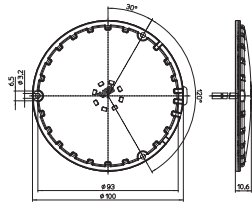
Screw terminals for LED module with heat sink:  
2.5 mm<sup>2</sup>

Welded leads for LED module without heat sink:  
double FEP/FEP-insulation, length: 300 mm,  
central or lateral lead exit

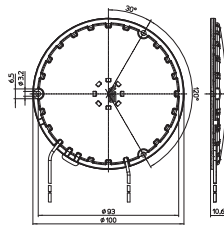
Fixing holes for screws M3 or  
self-tapping screws 2.9



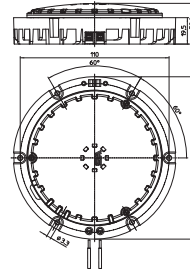
### With central lead exit



### With lateral lead exit



### With heat sink, protection cover and 2-poles screw terminals



Max. output W	Type	Ref. No.		Voltage AC 50/60 Hz V	Number of LEDs pcs.	Colour	Correlated colour temperature K	Cover	Luminous flux lm		CRI Ra	Lead exit	Energy efficiency
		with heat sink	without heat sink						min.	typ.			
10	LR54	<b>559537</b>	<b>559539</b>	220–240	54	warm white	2600...2900	clear	1010	1120	> 80	central	A++
	LR54	on request	<b>559540</b>									lateral	A++
	LR54	<b>559538</b>	<b>559541</b>	220–240	54	warm white	2600...2900	diffuse	890	950	> 80	central	A+
	LR54	on request	<b>559542</b>									lateral	A+
	LR54	<b>554951</b>	<b>554943</b>	220–240	54	warm white	2900...3200	clear	1100	1200	> 80	central	A++
	LR54	on request	<b>554944</b>									lateral	A++
	LR54	<b>554952</b>	<b>554945</b>	220–240	54	warm white	2900...3200	diffuse	935	1020	> 80	central	A+
	LR54	on request	<b>554946</b>									lateral	A+
	LR54	<b>554953</b>	<b>554947</b>	220–240	54	neutral white	3700...4200	clear	1150	1250	> 80	central	A++
	LR54	on request	<b>554948</b>									lateral	A++
LR54	<b>554954</b>	<b>554949</b>	220–240	54	neutral white	3700...4200	diffuse	980	1060	> 80	central	A+	
LR54	on request	<b>554950</b>									lateral	A+	
17.5	LR42	<b>559543</b>	<b>559545</b>	220–240	42	warm white	2600...2900	clear	1140	1330	> 80	central	A+
	LR42	on request	<b>559546</b>									lateral	A+
	LR42	<b>559544</b>	<b>559547</b>	220–240	42	warm white	2600...2900	diffuse	930	1100	> 80	central	A
	LR42	on request	<b>559548</b>									lateral	A
	LR42	<b>553828</b>	<b>553820</b>	220–240	42	warm white	2900...3200	clear	1440	1550	> 80	central	A+
	LR42	on request	<b>553821</b>									lateral	A+
	LR42	<b>553829</b>	<b>553822</b>	220–240	42	warm white	2900...3200	diffuse	1230	1340	> 80	central	A+
	LR42	on request	<b>553823</b>									lateral	A+
	LR42	<b>553830</b>	<b>553824</b>	220–240	42	neutral white	3700...4200	clear	1480	1590	> 80	central	A+
	LR42	on request	<b>553825</b>									lateral	A+
LR42	<b>553831</b>	<b>553826</b>	220–240	42	neutral white	3700...4200	diffuse	1260	1370	> 80	central	A+	
LR42	on request	<b>553827</b>									lateral	A+	

Accessories		Description	Tape thickness	Thermal conductivity	Breakdown voltage*
—	—	<b>552039</b> Cord grip with 2 screws for LED modules with heat sink	—	—	—
—	—	<b>555012</b> Thermally conductive adhesive transfer tape Ø 100 mm	0.25 mm	0.8 W/mK	5.5 kV
—	—	<b>553981</b> Thermally conductive transfer tape, non-adhesive Ø 99 mm	0.25 mm	2 W/mK	3 kV
—	—	<b>553795**</b> Thermally conductive transfer tape, adhesive on both sides Ø 104 mm	0.19 mm	0.9 W/mK	10.3 kV

\* Average value (not for specification purpose) | \*\* For use in luminaires of protection class I (has to be tested in luminaire)

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

## ReadyLine C 08

### Technical notes

Power factor: > 0.97

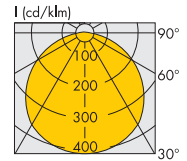
Dimensions: Ø 81.5 mm,

Ø 120 mm with heat sink

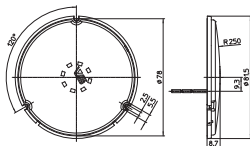
Screw terminals for LED module with heat sink:  
2.5 mm<sup>2</sup>

Welded leads for LED module without heat sink:  
double FEP/FEP-insulation, length: 300 mm,  
central or lateral lead exit

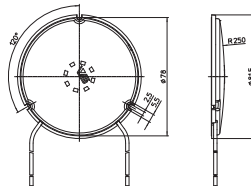
Fixing holes for screws M3 or  
self-tapping screws 2.9



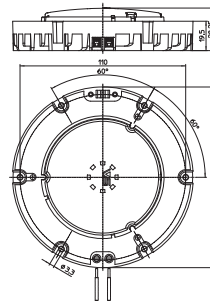
### With central lead exit



### With lateral lead exit



### With heat sink, protection cover and 2-poles screw terminals



Max. output W	Type	Ref. No.		Voltage AC 50/60 Hz V	Number of LEDs pcs.	Colour	Correlated colour temperature K	Cover	Luminous flux lm		CRI Ra	Lead exit	Energy efficiency	
		with heat sink	without heat sink						min.	typ.				
13	LR30W	<b>559550</b>	<b>559552</b>	220–240	30	warm white	2600...2900	clear	910	940	> 80	central	A+	
	LR30W	on request	<b>559553</b>						lateral	A+				
	LR30W	<b>559551</b>	<b>559554</b>						diffuse	780		800	central	A
	LR30W	on request	<b>559555</b>						lateral	A				
	LR30W	<b>557843</b>	<b>557834</b>	220–240	30	warm white	2900...3200	clear	1100	1190	> 80	central	A+	
	LR30W	on request	<b>557835</b>						lateral	A+				
	LR30W	<b>557844</b>	<b>557836</b>						diffuse	935		1010	central	A+
	LR30W	on request	<b>557837</b>						lateral	A+				
LR30W	<b>557845</b>	<b>557838</b>	220–240	30	neutral white	3700...4200	clear	1140	1210	> 80	central	A+		
LR30W	on request	<b>557839</b>						lateral	A+					
LR30W	<b>557846</b>	<b>557840</b>						diffuse	955		1030	central	A+	
LR30W	on request	<b>557841</b>						lateral	A+					
Accessories		Description							Tape thickness	Thermal conductivity	Breakdown voltage*			
—	—	<b>557692</b>	Thermally conductive transfer tape Ø 76 mm							0.25 mm	0.8 W/mK	5.5 kV		
—	—	<b>558229</b>	Thermally conductive non-adhesive transfer tape Ø 76 mm							0.25 mm	2 W/mK	3 kV		
—	—	<b>557691**</b>	Thermally conductive transfer tape, adhesive on both sides Ø 82 mm							0.19 mm	0.9 W/mK	10.3 kV		

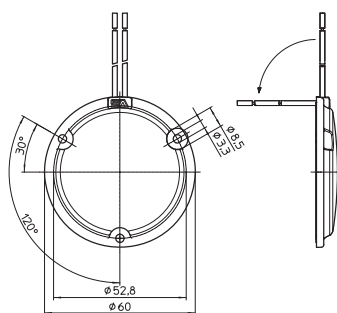
\* Average value (not for specification purpose) | \*\* For use in luminaires of protection class I (has to be tested in luminaire)

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## ReadyLine C 06

### Technical notes

Power factor: > 0.95  
 Dimensions: Ø 60 mm  
 Welded leads: double FEP/FEP-insulation,  
 length: 300 mm, lateral lead exit  
 Fixing holes for screws M3



Max. output W	Type	Ref. No.	Voltage AC 50/60 Hz V	Number of LEDs pcs.	Colour	Correlated colour temperature K	Cover	Luminous flux lm		CRI R <sub>a</sub>	Lead exit	Energy efficiency
								min.	typ.			
8.7	LR12W	<b>559565</b>	220–240	12	warm white	2600...2900	clear	590	650	> 80	lateral	A+
	LR12W	<b>559566</b>					diffuse	480	530	> 80		A
	LR12W	<b>559567</b>	220–240	12	warm white	2900...3200	clear	720	780	> 80	lateral	A+
	LR12W	<b>559568</b>					diffuse	610	660	> 80		A+
	LR12W	<b>559569</b>	220–240	12	neutral white	3700...4200	clear	740	800	> 80	lateral	A+
	LR12W	<b>559570</b>					diffuse	630	680	> 80		A+
Accessories			Description				Tape thickness	Thermal conductivity	Breakdown voltage*			
—	—	<b>559968</b>	Thermally conductive adhesive transfer tape Ø 64 mm				0.25 mm	0.8 W/mK		5.5 kV		
—	—	<b>559969</b>	Thermally conductive transfer tape, non-adhesive Ø 59 mm				0.25 mm	2 W/mK		3 kV		
—	—	<b>559970**</b>	Thermally conductive transfer tape, adhesive on both sides Ø 64 mm				0.19 mm	0.9 W/mK		10.3 kV		

\* Average value (not for specification purpose) | \*\* For use in luminaires of protection class I (has to be tested in luminaire)

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