

Eisen Series

Housing and Trim: Die-cast aluminium
 Mounting type: Recess adjustable, rotatable
 Heat Management: Die-cast aluminium heat sink
 Reflector: Aluminium
 Diffuser: Clear PMMA

LED Modules
 GERMAN Technology
 Comfort COB - Up to 1800lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature - 40°C to +40°C

Drivers: 350mA
 (optional: Dimmable available)
 Power factor at full load : 0.97
 SELV , Low Ripple current < 1% ,THD <15%
 Warranty: 5 years

Standards
 EN 620301 : LED modules for general lighting - Safety specification
 EN 62471 : Photobiological safety of lamps and systems
 EN 55015 : Radio disturbance emissions
 EN 61000-3-2 Limited for harmonic emissions
 EN 61547 : Immunity requirements

Application: Commercial Building, Lobby, Conventional Hall, Ballroom, Concourse



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Model	Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Energy Efficiency	Dimension (W x L x H) mm	Dimension (Cut out) mm
ESB1-3-1x12W	1x12.2W	220-240	50/60Hz	0.95	Warm white	2700K	1720	141	10, 23, 36	>82	A+	115 x 115 x 95	100 x 100
		220-240	50/60Hz	0.95	Warm white	3000K	1810	149	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	1865	153	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	1885	155	10, 23, 36	>82	A+		
ESB1-3-2x12W	2x12.2W	220-240	50/60Hz	0.95	Warm white	2700K	2x1720	141	10, 23, 36	>82	A+	115 x 230 x 95	100 x 215
		220-240	50/60Hz	0.95	Warm white	3000K	2x1810	149	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	2x1865	153	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	2x1885	155	10, 23, 36	>82	A+		
ESB1-3-3x12W	3x12.2W	220-240	50/60Hz	0.95	Warm white	2700K	3x1720	141	10, 23, 36	>82	A+	115 x 350 x 95	100 x 335
		220-240	50/60Hz	0.95	Warm white	3000K	3x1810	149	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	3x1865	153	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	3x1885	155	10, 23, 36	>82	A+		

*Colour tolerance: 3 MacAdam **Production tolerance of luminous flux and efficiency: ±10% ***Min. CRI ±3% ****Power consumption: ±10%
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LED Modules
 GERMAN Technology
 Comfort COB - Up to 3700lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature - 40°C to +40°C

Drivers: 700mA
 (optional: Dimmable available)
 Power factor at full load : 0.97
 SELV , Low Ripple current < 1% ,THD <15%
 Warranty: 5 years

Standards
 EN 620301 : LED modules for general lighting - Safety specification
 EN 62471 : Photobiological safety of lamps and systems
 EN 55015 : Radio disturbance emissions
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ESB1-4-1x25W	1x25.1W	220-240	50/60Hz	0.95	Warm white	2700K	3445	137	10, 23, 36	>82	A+	138 x 138 x 125	125 x 125
		220-240	50/60Hz	0.95	Warm white	3000K	3625	144	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	3730	148	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	3765	150	10, 23, 36	>82	A+		
ESB1-4-2x25W	2x25.1W	220-240	50/60Hz	0.95	Warm white	2700K	2x3445	137	10, 23, 36	>82	A+	138 x 278 x 125	125 x 263
		220-240	50/60Hz	0.95	Warm white	3000K	2x3625	144	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	2x3730	148	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	2x3765	150	10, 23, 36	>82	A+		
ESB1-4-3x25W	3x25.1W	220-240	50/60Hz	0.95	Warm white	2700K	3x3445	137	10, 23, 36	>82	A+	138 x 417 x 125	125 x 400
		220-240	50/60Hz	0.95	Warm white	3000K	3x3625	144	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	3x3730	148	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	3x3765	150	10, 23, 36	>82	A+		

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 GERMAN Technology
 Comfort COB - Up to 4800lm
 Long service life time : 50,000 hours (L80/B10)
 Ambient temperature - 40°C to +40°C

Drivers: 900mA
 (optional: Dimmable available)
 Power factor at full load : 0.97
 SELV , Low Ripple current < 1% ,THD <15%
 Warranty: 5 years

Standards
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Model	Wattage	Voltage	Frequency	Power Factor	Colour	Colour Temperature	Module Luminous Flux (Lm)	Module Efficacy Lm/W	Typ. Beam Angle	Typ. CRI Ra	Energy Efficiency	Dimension (W x L x H) mm	Dimension (Cut out) mm
ESB1-5-1x32W	1x32.0W	220-240	50/60Hz	0.95	Warm white	2700K	4455	139	10, 23, 36	>82	A+	163 x 163 x 145	150 x 150
		220-240	50/60Hz	0.95	Warm white	3000K	4690	147	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	4830	151	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	4875	152	10, 23, 36	>82	A+		
ESB1-5-2x32W	2x32.0W	220-240	50/60Hz	0.95	Warm white	2700K	2x4455	139	10, 23, 36	>82	A+	163 x 330 x 145	150 x 315
		220-240	50/60Hz	0.95	Warm white	3000K	2x4690	147	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	2x4830	151	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	2x4875	152	10, 23, 36	>82	A+		
ESB1-5-3x32W	3x32.0W	220-240	50/60Hz	0.95	Warm white	2700K	3x4455	139	10, 23, 36	>82	A+	163 x 495 x 145	150 x 480
		220-240	50/60Hz	0.95	Warm white	3000K	3x4690	147	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Neutral white	4000K	3x4830	151	10, 23, 36	>82	A+		
		220-240	50/60Hz	0.95	Cool white	5700K	3x4875	152	10, 23, 36	>82	A+		

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