Helvar

Standard electronic ballasts for T8 Fluorescent Lamps 18-58W 220-240V 50-60Hz

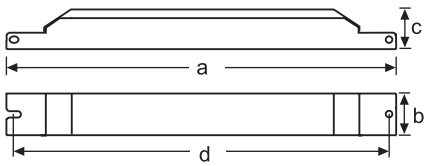
- Energy saving
- Warm Start according to lamp standards
- Flickerless light
- Covers EMC requirements
- Low harmonics
- Low power losses
- Stabilized output

Lamp type	W	No. of lamps	Ballast	EEI	Delivery details	Dimensions no.	Wiring no.	Weight (g)	Circuit power (W)	Mains current (A)	Operating frequency (kHz)	Lamp power (W)
T8	18	1	**EL1x18ngn**	A2		1	1	190	19	0.09-0.08	43	16
		2	**EL2x18ngn**	A2		1	2	200	37	0.16-0.15	46	16
	36	1	**EL1x36ngn**	A2		1	1	191	36	0.16-0.15	48	32
		2	**EL2x36ngn**	A2		1	2	205	70	0.32-0.29	45	32
	58	1	**EL1x58ngn**	A2		1	1	193	55	0.26-0.23	47	50
		2	**EL2x58ngn**	A2		1	2	218	108	0.50-0.45	48	50

Dimensions

NO.	1
DRAWING	A
LENGTH 'a' (mm)	280
WIDTH 'b' (mm)	30
HEIGHT 'c' (mm)	28
'd' (mm)	270

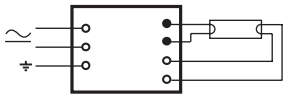
A



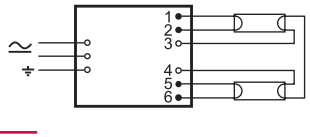
Connection diagrams

NOTE: *All wiring to the connectors marked with a black dot;*
- *(hot wires) should be as short as possible.*

1.



2.



Characteristics

Max.temperature at tc point	75°C
Ambient temperature range	-20…+50°C
Storage temperature range	-40…+80°C
Maximum relative humidity	no condensation
Number of starts per lamp	> 50 000
Mains voltage tolerance	±10 %
DC range (starting voltage >190VDC)	176-280 VDC
Over voltage duration	320 VAC, 1h
Power factor, typical	0.98
Earth leakage current	< 0.4 mA
Maximum working voltage (Uout)	350V
Lifetime (90% survival)	50 000 h, at Tc max
Max length of ballast to lamp wiring	2m
Ignition time, typical	~1.0s

Standards

CE marked	
General and safety requirements	EN 61347-2-3
Additional safety requirements	
for AC/DC supplied ballasts acc. To	EN 61347-2-3 Annex J
Performance requirements	EN 60929
Lamp life acc. to	EN 60081 / EN 60901
Mains current harmonics, acc. To	EN 61000-3-2
Radio Frequency Interference, acc. To	EN 55015
Immunity standard, acc. To	EN 61547
Thermal protection class	EN 61347, B.6.2e

Due to our continuing program of product development data subject to change without notice.