

ELXc – Warm Start for T5 and T8 Lamps

Electronic built-in ballasts

Casing: metal

Power factor: ≥ 0.95

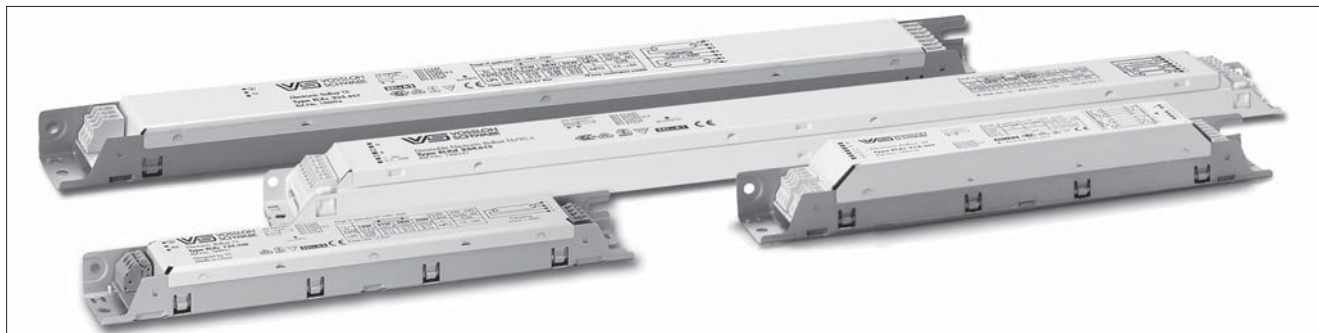
RFI-suppressed

For luminaires of protection class I

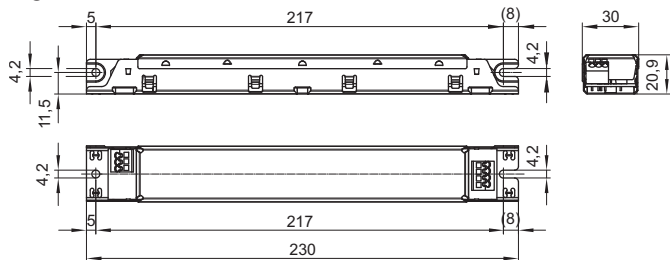
Degree of protection: IP20

For lighting systems with

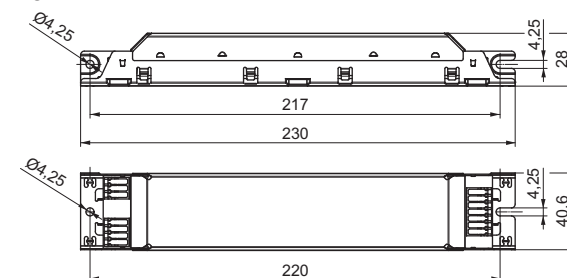
high switching frequency ($> 5/\text{day}$)



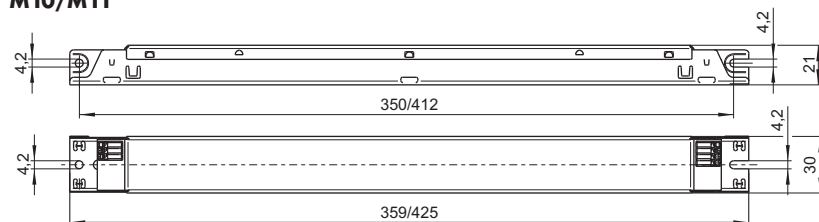
M6



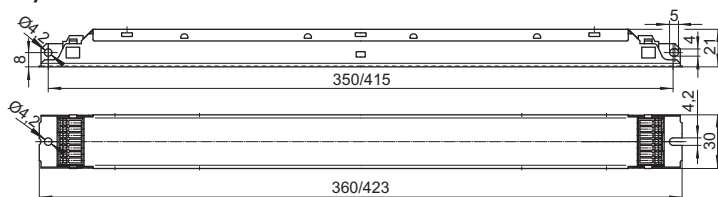
M8



M10/M11



M22/M24



ELXc – Warm start for T5 lamps with lamp detection

DC voltage

for operation: 176–276 V

for ignition: 198–264 V

Push-in terminals: 0,5–1 mm²

For the automatic luminaire wiring:

IDC terminals for leads H05V-U 0.5

EOL shut down approved

acc. to EN 61347 Test 2

Automatic lamp detection (T5 HO/HE)

Optimum pre-heating of the filament ensures
lamps can be ignited within 1 second.

☒ T5 ☐ TC ☒ BUILT-IN ☐ 1–10 V
☐ T8 ☐ INDEPENDENT ☐ DALI/PUSH

Lamp				Electronic ballast							System	
Output W	Type	Base	Power consumption W	Type	Ref. No.	Voltage AC 50, 60 Hz V±10%	Energy efficiency	Ambient temperature t _a (°C)	Casing temperature t _c (°C)	Casing	Output W	Luminous factor %
14	T5	G5	1 x 14.0	ELXc 139.632	188945	220–240	A2 BAT	–20 to 50	max. 75	M22	16.0	100.0
2x14	T5	G5	2 x 14.0	ELXc 239.635	188948	220–240	A2 BAT	–20 to 50	max. 75	M22	31.0	100.0
21	T5	G5	1 x 21.0	ELXc 139.632	188945	220–240	A2 BAT	–20 to 50	max. 75	M22	24.0	100.0
2x21	T5	G5	2 x 20.5	ELXc 239.635	188948	220–240	A2 BAT	–20 to 50	max. 75	M22	45.0	100.0
24	T5	G5	1 x 23.0	ELXc 139.632	188945	220–240	A2 BAT	–20 to 50	max. 75	M22	26.0	100.0
2x24	T5	G5	2 x 23.0	ELXc 239.635	188948	220–240	A2 BAT	–20 to 50	max. 75	M22	50.0	100.0
28	T5	G5	1 x 28.0	ELXc 154.633	188946	220–240	A2 BAT	–20 to 50	max. 75	M22	32.0	100.0
2x28	T5	G5	2 x 28.0	ELXc 254.636	188949	220–240	A2 BAT	–20 to 50	max. 75	M22	61.0	100.0
35	T5	G5	1 x 35.0	ELXc 154.633	188946	220–240	A2 BAT	–20 to 50	max. 75	M22	38.0	100.0
			1 x 35.0	ELXc 180.634	188947	220–240	A2 BAT	–20 to 50	max. 75	M22	38.0	100.0
			2 x 35.0	ELXc 254.636	188949	220–240	A2 BAT	–20 to 50	max. 75	M22	76.0	100.0
2x35	T5	G5	2 x 35.0	ELXc 280.637	188950	220–240	A2 BAT	–20 to 50	max. 75	M24	75.0	100.0
39	T5	G5	1 x 38.0	ELXc 139.632	188945	220–240	A2 BAT	–20 to 50	max. 75	M22	41.0	100.0
2x39	T5	G5	2 x 38.0	ELXc 239.635	188948	220–240	A2 BAT	–20 to 50	max. 75	M22	81.0	100.0
49	T5	G5	1 x 49.0	ELXc 154.633	188946	220–240	A2 BAT	–20 to 50	max. 75	M22	53.0	100.0
			1 x 49.0	ELXc 180.634	188947	220–240	A2 BAT	–20 to 50	max. 75	M22	53.0	100.0
2x49	T5	G5	2 x 49.0	ELXc 254.636	188949	220–240	A2 BAT	–20 to 50	max. 75	M22	105.0	100.0
			2 x 49.0	ELXc 280.637	188950	220–240	A2 BAT	–20 to 50	max. 75	M24	104.0	100.0
54	T5	G5	1 x 54.0	ELXc 154.633	188946	220–240	A2 BAT	–20 to 50	max. 75	M22	58.0	100.0
2x54	T5	G5	2 x 54.0	ELXc 254.636	188949	220–240	A2 BAT	–20 to 50	max. 75	M22	115.0	100.0
80	T5	G5	1 x 80.0	ELXc 180.634	188947	220–240	A2 BAT	–20 to 50	max. 75	M22	85.0	100.0
2x80	T5	G5	2 x 80.0	ELXc 280.637	188950	220–240	A2 BAT	–20 to 50	max. 75	M24	165.0	100.0

Circuit diagrams see pages 255–259

ELXc – Warm Start for T5 and T8 Lamps

DC voltage

for operation: 176–264 V

for ignition: 198–264 V

(ELXc 135.856, 235.857, 149.858, 154.864,
180.866, 270.206; 280.538:

DC voltage cannot be reduced to 176 V)

Push-in terminals: 0.5–1 mm²

For the automatic luminaire wiring:

IDC terminals for leads HO5V-U 0.5

EOL shut down approved

acc. to EN 61347 Test 2 (for T5)

EOL shut down (for T8)

☒ T5 ☐ TC ☒ BUILT-IN ☐ 1–10 V
☒ T8 ☐ INDEPENDENT ☐ DALI/PUSH

Lamp				Electronic ballast							System	
Output W	Type	Base	Power con- sumption W	Type	Ref. No.	Voltage AC 50, 60 Hz V±10%	Energy efficiency	Ambient temperature t _a (°C)	Casing temperature t _c (°C)	Casing	Output W	Luminous factor %
For T5 lamps – Casing: M8, M10 and M11												
14	T5	G5	1 x 14.0	ELXc 135.856	188093	220–240	A2 BAT	–15 to 55	max. 70	M10	17.0	110.7
2x14	T5	G5	2 x 14.0	ELXc 235.857	188094	220–240	A2 BAT	–15 to 55	max. 70	M10	33.4	107.0
3x14	T5	G5	3 x 14.0	ELXc 414.868	188438	220–240	A2 BAT	–15 to 55	max. 70	M8	48.0	105.4
4x14	T5	G5	4 x 14.0	ELXc 414.868	188438	220–240	A2 BAT	–15 to 55	max. 70	M8	63.0	102.3
21	T5	G5	1 x 21.0	ELXc 135.856	188093	220–240	A2 BAT	–15 to 55	max. 70	M10	24.0	107.4
2x21	T5	G5	2 x 21.0	ELXc 235.857	188094	220–240	A2 BAT	–15 to 55	max. 70	M10	50.2	110.6
24	T5	G5	1 x 22.5	ELXc 140.862	188140	220–240	A2 BAT	–15 to 55	max. 70	M10	27.0	114.0
2x24	T5	G5	2 x 22.5	ELXc 240.863	188616	220–240	A2 BAT	–15 to 55	max. 70	M10	51.0	107.4
3x24	T5	G5	3 x 22.5	ELXc 424.223	183039	220–240	A2 BAT	–15 to 55	max. 75	M8	78.0	103.7
4x24	T5	G5	4 x 22.5	ELXc 424.223	183039	220–240	A2	–15 to 55	max. 75	M8	101.7	103.5
28	T5	G5	1 x 28.0	ELXc 135.856	188093	220–240	A2 BAT	–15 to 55	max. 70	M10	32.0	104.9
2x28	T5	G5	2 x 28.0	ELXc 235.857	188094	220–240	A2 BAT	–15 to 55	max. 70	M10	60.6	106.2
3x28	T5	G5	3 x 27.9	ELXc 328.224	183094	220–240	A2	–15 to 55	max. 70	M8	89.9	100.0
35	T5	G5	1 x 35.0	ELXc 135.856	188093	220–240	A2 BAT	–15 to 55	max. 70	M10	39.5	102.7
2x35	T5	G5	2 x 35.0	ELXc 235.857	188094	220–240	A2 BAT	–15 to 55	max. 70	M10	74.5	102.5
39	T5	G5	1 x 38.0	ELXc 140.862	188140	220–240	A2 BAT	–15 to 55	max. 70	M10	43.0	107.0
2x39	T5	G5	2 x 38.0	ELXc 240.863	188616	220–240	A2 BAT	–15 to 55	max. 70	M10	82.0	97.9
49	T5	G5	1 x 49.0	ELXc 149.858	188095	220–240	A2 BAT	–15 to 55	max. 70	M10	54.0	102.5
2x49	T5	G5	2 x 49.0	ELXc 249.859	188617	220–240	A2 BAT	–15 to 50	max. 70	M10	113.0	106.6
54	T5	G5	1 x 54.0	ELXc 154.864	188142	220–240	A2 BAT	–15 to 55	max. 65	M10	59.0	101.1
2x54	T5	G5	2 x 54.0	ELXc 254.865	188618	220–240	A2 BAT	–15 to 50	max. 70	M10	119.0	106.0
80	T5	G5	1 x 80.0	ELXc 180.866	188144	220–240	A2 BAT	–15 to 55	max. 70	M10	87.0	97.6
2x80	T5	G5	2 x 80.0	ELXc 280.538	188619	220–240	A2 BAT	–15 to 50	max. 70	M11	175.0	97.2
For T8 lamps – Casing: M8												
3x18	T8	G13	3 x 16.0	ELXc 418.204	188744	220–240	A2 BAT	–15 to 55	max. 70	M8	56.0	100.8
4x18	T8	G13	4 x 16.0	ELXc 418.204	188744	220–240	A2 BAT	–15 to 55	max. 70	M8	71.5	98.9
3x36	T8	G13	3 x 32.0	ELXc 336.214	188595	220–240	A2 BAT	–15 to 50	max. 65	M8	105.0	99.4

Circuit diagrams see pages 255–259

new

ELXc EffectLine – Warm start

Warm start for T5 and T8 lamps – Casing: M6, M8 and M10

DC voltage

for operation: 176–264 V

for ignition: 198–264 V

(not possible for T8)

Push-in terminals with lever opener: 0.5–1.5 mm²

EOL shut down approved

acc. to EN 61347 Test 2 (for T5)

EOL shut down (for T8)

☒ T5 ☐ TC ☒ BUILT-IN ☐ 1–10 V
☒ T8 ☐ INDEPENDENT ☐ DALI/PUSH

Lamp				Electronic ballast							System	
Output W	Type	Base	Power consumption W	Type	Ref. No.	Voltage AC 50, 60 Hz V±10%	Energy efficiency	Ambient temperature t _a (°C)	Casing temperature t _c (°C)	Casing	Output W	Luminous factor %

For T5 lamps – Casing: M6 and M10

14	T5	G5	1 x 14.3	ELXc 135.220	188921	220–240	A2 BAT	–15 to 55	max. 70	M6	17.0	104.8
2x14	T5	G5	2 x 14.3	ELXc 235.221	188922	220–240	A2 BAT	–15 to 55	max. 70	M10	34.5	101.9
21	T5	G5	1 x 20.4	ELXc 135.220	188921	220–240	A2 BAT	–15 to 55	max. 70	M6	23.3	106.9
2x21	T5	G5	2 x 21.4	ELXc 235.221	188922	220–240	A2 BAT	–15 to 55	max. 70	M10	48.3	104.9
28	T5	G5	1 x 26.7	ELXc 135.220	188921	220–240	A2 BAT	–15 to 55	max. 70	M6	29.9	107.5
2x28	T5	G5	2 x 28.7	ELXc 235.221	188922	220–240	A2 BAT	–15 to 55	max. 70	M10	62.1	109.0
35	T5	G5	1 x 32.6	ELXc 135.220	188921	220–240	A2 BAT	–15 to 55	max. 70	M6	36.5	103.0
2x35	T5	G5	2 x 35.6	ELXc 235.221	188922	220–240	A2 BAT	–15 to 55	max. 70	M10	78.2	100.8

For T8 lamps – Casing: M8

18	T8	G13	1 x 16.0	ELXc 136.207	188704	220–240	A2 BAT	–20 to 55	max. 60	M8	18.4	105.0
2x18	T8	G13	2 x 16.0	ELXc 236.208	188705	220–240	A2 BAT	–20 to 50	max. 60	M8	35.2	106.0
36	T8	G13	1 x 32.0	ELXc 136.207	188704	220–240	A2 BAT	–20 to 55	max. 60	M8	35.4	97.0
2x36	T8	G13	2 x 32.0	ELXc 236.208	188705	220–240	A2 BAT	–20 to 50	max. 60	M8	69.7	98.0
58	T8	G13	1 x 50.0	ELXc 158.209	188706	220–240	A2 BAT	–20 to 50	max. 60	M8	52.6	106.0
2x58	T8	G13	2 x 50.0	ELXc 258.210	188707	220–240	A2	–20 to 50	max. 65	M8	109.9	105.0

Circuit diagrams see pages 255–259

Warm start for T8 lamps – Casing: M8

For the automatic luminaire wiring:

IDC terminals for leads H05V-U 0.5

EOL shut down

☒ T5 ☐ TC ☒ BUILT-IN ☐ 1–10 V
☒ T8 ☐ INDEPENDENT ☐ DALI/PUSH

Lamp				Electronic ballast							System	
Output W	Type	Base	Power consumption W	Type	Ref. No.	Voltage AC 50, 60 Hz V±10%	Energy efficiency	Ambient temperature t _a (°C)	Casing temperature t _c (°C)	Casing	Output W	Luminous factor %

18	T8	G13	1 x 16.0	ELXc 136.207	188708	220–240	A2 BAT	–20 to 55	max. 60	M8	18.4	105.0
2x18	T8	G13	2 x 16.0	ELXc 236.208	188709	220–240	A2 BAT	–20 to 50	max. 60	M8	35.2	106.0
36	T8	G13	1 x 32.0	ELXc 136.207	188708	220–240	A2 BAT	–20 to 55	max. 60	M8	35.4	97.0
2x36	T8	G13	2 x 32.0	ELXc 236.208	188709	220–240	A2 BAT	–20 to 50	max. 60	M8	69.7	98.0
58	T8	G13	1 x 50.0	ELXc 158.209	188710	220–240	A2 BAT	–20 to 50	max. 60	M8	52.6	106.0
2x58	T8	G13	2 x 50.0	ELXc 258.210	188711	220–240	A2	–20 to 50	max. 65	M8	109.9	105.0

Circuit diagrams see pages 255–259