

Producer

- EFLA FINLAND

Application

- transformers for aeronautical Series Circuit
- due their low leakage inductance are suitable for use for individual lamp control and monitoring systems

Certificate basis

- FAA AC 5345-47, IEC, ICAO annex 14

Description/properties

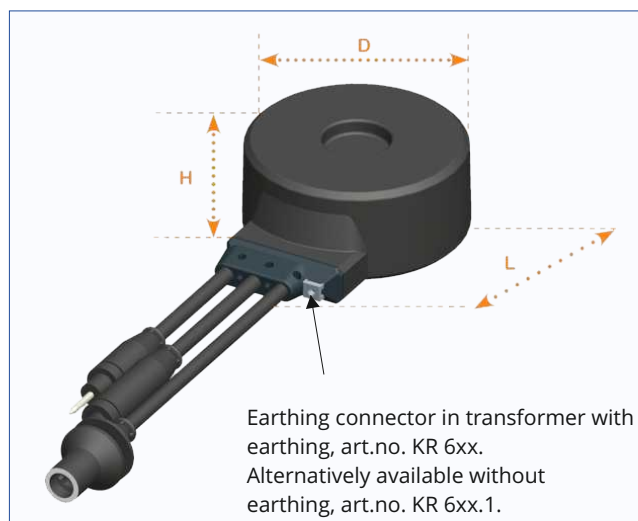
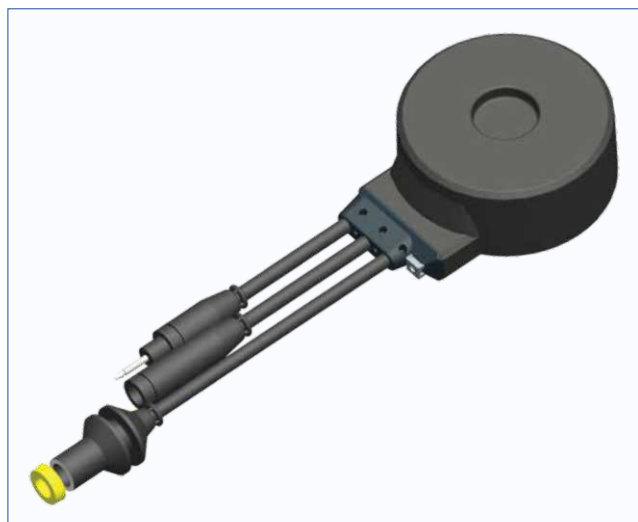
- transformers are completely waterproof
- the encapsulation of the transformer is made of TPE (thermoplastic elastomer), with excellent electrical and mechanical resistance to the chemicals typical used at airfield
- thermal resistance up to 135 °C
- the transformers are available alternatively with or without earthing, the earthing connector is connected to the secondary winding
- the transformers have two copper windings, one primary and one secondary, wound separately on a toroidal magnetic core circuit and insulated completely from each other

Primary leads

- the transformers have two primary leads, standard length 0,6 m, cross section min. 6 mm²
- one lead with FAA L-823, Style 2 plug
- one lead with FAA L-823, Style 9 receptacle

Secondary leads

- the transformers have one secondary lead of 1,2 m in length with cross-section min. 2,5 mm², min. 0,6 kV and FAA L-823 Style 8 connector
- on request, the transformers can be equipped with other cable sizes and lengths or with FAA L-823 Style 7 connector



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KR6xx



Electrical parameters

Type with earthing	Type without FAA earthing	TYPE	Rated power [W]	Rated Current [A]	Power range [w]	Load [Ω]	Efficiency [%]	Power Factor	
KR621	KR621.1	L-830-16	L-831-16	10/15	6,6/6,6	10–15	0,34*	>70	>0,97
KR625	KR625.1	L-830-17	L-831-17	20/25	6,6/6,6	20–25	0,57*	>70	>0,97
KR631	KR631.1	L-830-1	L-831-1	30/45	6,6/6,6	25–60	0,57–1,38	>85	>0,97
KR636	KR636.1	L-830-3	L-831-3	65	6,6/6,6	50–85	1,15–1,95	>85	>0,97
KR641	KR641.1	L-830-4	L-831-4	100	6,6/6,6	80–125	1,84–2,87	>85	>0,97
KR646	KR646.1	L-830-19	L-831-19	150	6,6/6,6	120–178	2,75–4,13	>90	>0,97
KR651	KR651.1	L-830-6	L-831-6	200	6,6/6,6	160–230	3,67–5,28	>90	>0,97
KR661	KR661.1	L-830-10	L-831-10	300	6,6/6,6	220–338	5,05–8,25	>90	>0,97
KR681	KR681.1	L-830-14	L-831-14	500	6,6/6,6	400–523	12,00*	>90	>0,97

* according to FAA AC 150/5345-47

Leakage inductances

Type with earthing	Type without earthing	Rated power [W]	Short circuited current [A]	Open circuit voltage [V]	L (magn)	L (leak)
KR621	KR621.1	10/15	< 6.7	< 8	13,0 mH	<20 μH
KR625	KR625.1	20/25	< 6.7	< 8	13,0 mH	<20 μH
KR631	KR631.1	30/45	< 6.7	< 13	16,0 mH	<30 μH
KR636	KR636.1	65	< 6.7	< 16	19,0 mH	<40 μH
KR641	KR641.1	100	< 6.7	< 23	14,0 mH	<40 μH
KR646	KR646.1	150	< 6.7	< 25	24,0 mH	<50 μH
KR651	KR651.1	200	< 6.7	< 41	25,0 mH	<60 μH
KR661	KR661.1	300	< 6.7	< 70	35,0 mH	<100 μH
KR681	KR681.1	500	< 6.7	< 100	64,0 mH	<130 μH

Dimensions and packing

Type with earthing	Type without earthing	D [mm]	L [mm]	H [mm]	Weight [kg]	Standard packing [ks]	Gross weight [kg]	CBM [m³]
KR621	KR621.1	89	115	45	1,03	220	250	0,64
KR625	KR625.1	89	115	45	1,03	220	250	0,64
KR631	KR631.1	100	125	55	1,6	208	358	0,64
KR636	KR636.1	126	168	56	2,1	160	361	0,64
KR641	KR641.1	147	193	54	3,0	144	457	0,64
KR646	KR646.1	147	193	60	3,12	144	475	0,64
KR651	KR651.1	147	193	64	3,37	126	450	0,64
KR661	KR661.1	147	193	73	4,17	108	476	0,64
KR681	KR681.1	147	193	95	5,33	90	505	0,64

Producer

- EFLA FINLAND

Application

- transformers for aeronautical Series Circuit

Certificate basis

- FAAAC 150/5345-47A, ICAO Aerodrome Design Manual Part 5 Electrical Systems, IEC 61823

Description/properties

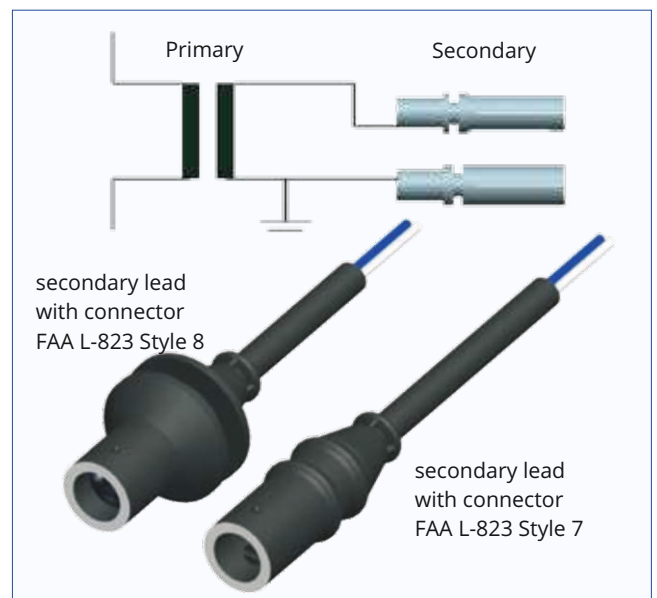
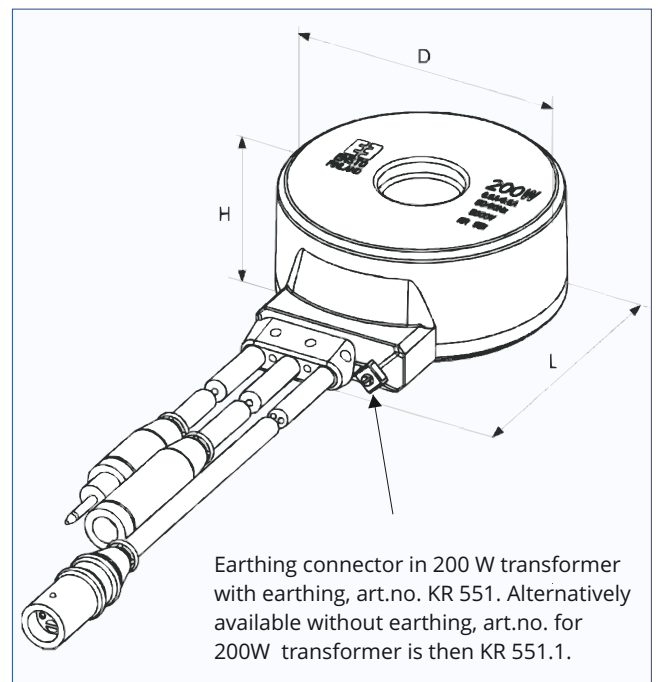
- transformers are completely waterproof
- the encapsulation of the transformer is made of TPE (thermoplastic elastomer), with excellent electrical and mechanical resistance to oil, kerosene, other aircraft, fuel, soil acids and alkalis and other chemicals typically present on the airfield.
- the plug and receptacle insulation as well as cable insulation is of the same material - thermoplastic elastomer - fully
- the transformers are available alternatively with or without earthing
- the earthing connector is connected to the secondary winding which is connected to the larger socket of the secondary connector
- the transformers have two copper windings, one primary and one secondary, wound separately on a toroidal magnetic core circuit and insulated completely from each other
- the toroidal core has the optimal shape for a transformer

Primary leads

- the transformers have two primary leads, standard length 0,6 m, cross section min. 6 mm²
- one lead is with FAA L-823, Style 2 plug
- one lead with FAA L-823, Style 9 receptacle.

Secondary leads

- the transformers have one secondary lead of 1,2 m in length with cross-section min. 2.5mm², min. 0,6kV
- secondary lead is fitted with style 7 connector
- on request, the transformers can be equipped with other cable sizes and lengths or with style 8 connector



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KR5xx



Electrical parameters

Type with earthing	Type without earthing	Type FAA	Nominal Power rating [W]	Min. power factor	Max. circuit Voltage [V]	Current Rating [A]	Frequency [Hz]
KR531	KR531.1	L-830-1 L-831-1	30/45	0,97	5000	8,3*/6,6/6,6	50/60
KR536	KR536.1	L-830-3 L-831-3	65	0,97	5000	8,3*/6,6/6,6	50/60
KR541	KR541.1	L-83IM L-831	100	0,97	5000	8,3*/6,6/6,6	50/60
KR546	KR546.1	L-830-19 L-831-19	150	0,97	5000	8,3*/6,6/6,6	50/60
KR551	KR551.1	L-830-6 L-831-6	200	0,97	5000	8,3*/6,6/6,6	50/60
KR561	KR561.1	L-830-10 L-831-10	300	0,97	5000	8,3*/6,6/6,6	50/60

* transformers with 8.3 A/6.6 A current rating are also available, use code "83" (for example: KR531.83.1)

- maximum overload of transformers is approx. 20 percent over the nominal power with sinusoidal voltage.
- on request transformers can be supplied with protective caps for connectors

Dimensions and packing

Type	D [mm]	L [mm]	H (height) [mm]	Weight [kg]	Standard packing* [pcs]	Gross weight [kg]	Cbm [m³]
KR 531, KR 531.1	100	125	55	1,7	240	430	0,55
KR 536, KR 536.1	126	168	56	2,3	144	454	0,55
KR 541, KR 541.1	147	193	54	3,0	144	454	0,55
KR 546, KR 546.1	147	193	60	3,3	135	470	0,55
KR 551, KR 551.1	147	193	64	3,8	126	500	0,55
KR 561, KR 561.1	147	193	73	4,8	108	540	0,55

LED transformers

- for LED-lights now available smaller energy saving AGL LED Transformers

Type with earthing	Type without earthing	Nominal Power rating [W]	Max. circuit Voltage [V]	Current Rating [A]	Frequency [Hz]
KR511	KR511.1	100	5000	6,6/6,6	50/60
KR521	KR521.1	20	5000	6,6/6,6	50/60
KR525	KR525.1	7	5000	6,6/6,6	50/60

Producer

- EFLA FINSKO

Application

- voltage Transformers for parallel circuits (230 VAC)

Certificate basis

- FAAAC 150/5345-47A, ICAO Aerodrome Design Manual Part 5 Electrical Systems, IEC 61823

Description/properties

- transformers are completely waterproof
- the encapsulation of the transformer is made of TPE (thermoplastic elastomer), with excellent electrical and mechanical resistance to oil, kerosene, other aircraft, fuel, soil acids and alkalis and other chemicals typically present on the airfield.
- the plug and receptacle insulation as well as cable insulation is of the same material - thermoplastic elastomer - fully

Type KRV

- KRV transformers have two primary leads, length 0,6 m with T-type connector
 - 1x plug with FAA L-823 style 2
 - 1x plug FAA L 823, Style 9
- secondary lead is 1.2 m in length, cable type 2 x 2.5 mm², 0.6kV with a receptacle FAA L823, style 7
- variants:
 - kit KD510, end of line KDCVO1
 - kit KD501 a KD502, end of line KDCS.END

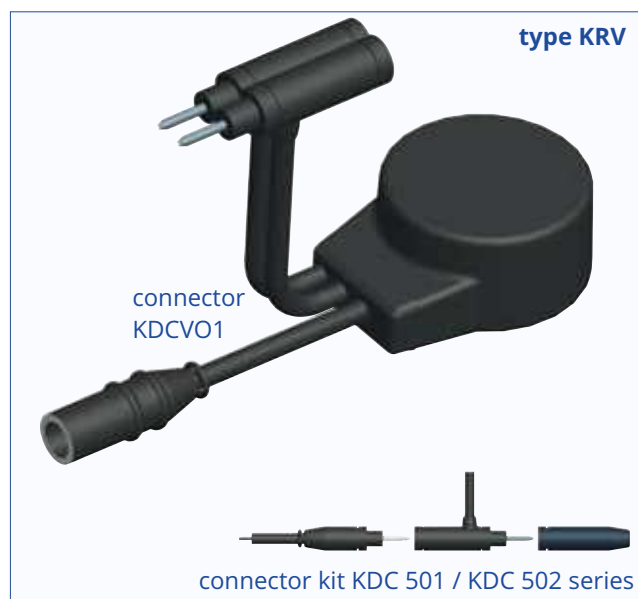
Type KRVS

- secondary connector for both incoming and outgoing interfaces
- primary lead length is 0.6 m and it has a style 1 connector
- secondary lead length is 1.2 m and it is equipped with a FAA L-823 style 7 connector

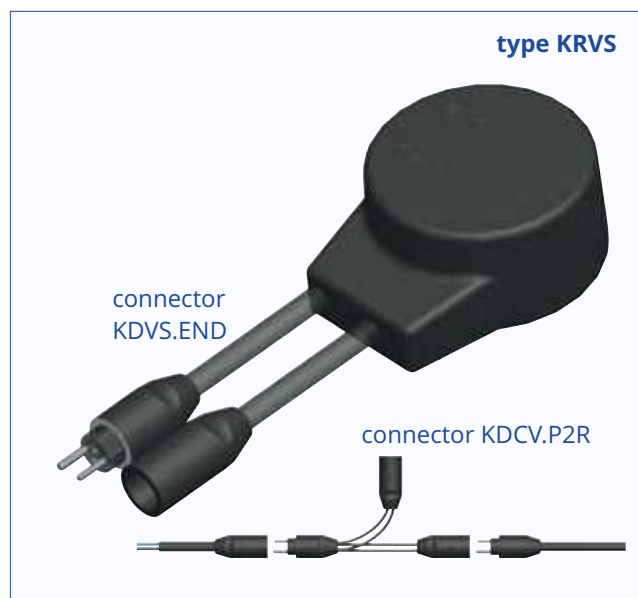
Electrical parameters

Type	Primary Voltage [V]	Secondary Voltage [V]	Secondary Power [W]
KRV530 / KRV530	230	6,8	45/50
KRV536 / KRV536	230	9,85	65
KRV540 / KRV540	230	15,2	100
KRV545 / KRV545	230	22,7	150
KRV550 / KRV550	230	30,2	200

type KRV



type KRVS



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KRV / KRVS



Dimensions and packing

Type	D [mm]	L [mm]	H [mm]	Weight [kg]	Standard packing [ks]	Gross weight [kg]	CBM [m³]
KRV530 / KRVS530	100	125	55	1,4	208	310	0,64
KRV536 / KRVS536	126	168	56	1,5	160	260	0,64
KRV540 / KRVS540	147	193	60	2,3	144	350	0,64
KRV545 / KRVS545	147	193	60	2,4	144	370	0,64
KRV550 / KRVS550	147	193	64	3,3	126	440	0,64

Accessories

- connecting accessories
 - KDCVO1 End caps for KRV -series
 - KDCV.P2R Distribution connector for KRVS series
 - KDVS.END End cap for KRVS -series



connectors KDCVO1



connector KDCV.P2R



connectors KDVS.END