

**FEATURES**

- Reliable solution without power supply
- Smooth flicker-free dimming to 0,1%
- Practically no inrush current
- Warm dim version available



HV-FD 40°

HV-FD 80°

**SPRINGS**

Standard with CS spring (concrete/gyproc). Also available as above with WS spring (gyproc/metal).

**COLOURS**

Available colours:



Nr	Housing	Inside ring
	RAL 9016	
XX=61	Matt white	Gold
XX=62	Matt white	Black
XX=65	Matt white	White



Nr	Housing	Inside ring
	RAL 9005	
XX=71	Matt black	Gold
XX=72	Matt black	Black
XX=76	Matt black	White

# Fido 98 HV-FD

Fixed



**SPECIFICATIONS**

Input voltage	220-240Vac
Beam angle (FWHM)	40° / 80°
Fixture material	Housing: Die cast aluminium / Reflector glass: Polycarbonate
Environment	Indoor
IK rate	IK03
Inrush current (peak / duration)	<100mA / 0 μs (soft start)
Max. quantity per type B 16A	360 pcs.
Mains surge capability (between L - N)	2 kV (differential mode (DM))
Mains surge capability (between L/N - PE)	4 kV (common mode (CM))
% Flicker (Conform IEEE P1789 Standard)	Typical 0,4%
Flicker index	<0,1
Dimming range	100-1%
THD	15%
Operating temperature (Ta)	-20°C / +45°C <sup>1</sup>
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years * (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015)
Energy class	These products contains a light source of energy efficiency class G

This luminaire contains built-in LED lamps. There are no exchangeable parts inside the luminaire. EU 874/2012

<sup>1</sup> In applications with a flat roof (fi. car showrooms) the temperatures may exceed 45°C. Please ask our sales office for a special driver.



Only when the product is installed in a closed ceiling it may be exposed to water splashes, and only on its front side.



**FIDO 98 220-240V**



**Connection box 3P**  
82x43x26 mm  
Possibility for looping by 2 cables  
max. Ø 10mm (H03/H05).



**ITEM SPECIFICATIONS (PART A)**

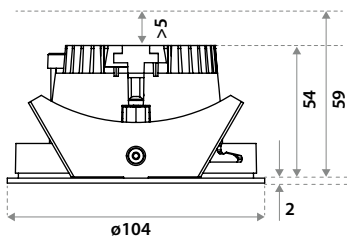
Description + Connectionbox 3P	Item code CS	Item code WS	Input	W	Lm	Lm/W	CRI (typ.)	UGR	Pf
Fido 98 HV-FD 2700K 600 Lm 40° Triac dim	F12A03XX5A02	F12A03XX8A02	220-240V	10,5	600	57	93	12.7	0.99
Fido 98 HV-FD 3000K 600 Lm 40° Triac dim	F12A03XX5C02	F12A03XX8C02	220-240V	10,3	600	58	93	12.7	0.99
Fido 98 HV-FD 4000K 600 Lm 40° Triac dim	F12A03XX5E02	F12A03XX8E02	220-240V	10,1	600	59	93	12.7	0.99
Fido 98 HV-FD 2200-3000K 600 Lm 40° Triac dim	F12A03XX5G02	F12A03XX8G02	220-240V	10,3	600	58	93	12.7	0.99
Fido 98 HV-FD 2700K 600 Lm 80° Triac dim	F12A03XX5B02	F12A03XX8B02	220-240V	10,5	600	57	93	23.8	0.99
Fido 98 HV-FD 3000K 600 Lm 80° Triac dim	F12A03XX5D02	F12A03XX8D02	220-240V	10,3	600	58	93	23.8	0.99
Fido 98 HV-FD 4000K 600 Lm 80° Triac dim	F12A03XX5F02	F12A03XX8F02	220-240V	10,1	600	59	93	23.8	0.99
Fido 98 HV-FD 2200-3000K 600 Lm 80° Triac dim	F12A03XX5H02	F12A03XX8H02	220-240V	10,3	600	58	93	23.8	0.99

**ITEM SPECIFICATIONS (PART B)**

Description	Safety class	Energy class	Weight	Dimensions single carton	Quantity per carton	Expected lifespan (25°C)		
						L70B50	L80B50	L90B50
Fido 98 HV-FD 2700K 600 Lm 40° Triac dim	I	G	270 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 3000K 600 Lm 40° Triac dim	I	G	270 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 4000K 600 Lm 40° Triac dim	I	G	270 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 2200-3000K 600 Lm 40° Triac dim	I	G	270 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 2700K 600 Lm 80° Triac dim	I	G	240 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 3000K 600 Lm 80° Triac dim	I	G	240 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 4000K 600 Lm 80° Triac dim	I	G	240 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs
Fido 98 HV-FD 2200-3000K 600 Lm 80° Triac dim	I	G	240 gr	105x105x105 mm	35 pcs	>70.000 hrs	>70.000 hrs	>54.000 hrs

All values are measured at 230V (+/- 7%)

**DIMENSIONS**



**HOLE SIZE**



**Using CS springs:** Ø 98 mm.  
Thickness ceiling 5-59 mm  
& recess depth 59 mm.



**Using WS springs.** Ø 98 mm.  
Thickness ceiling 1-50 mm  
& recess depth 59 mm.

**RECOMMENDED DIMMER LIST ILLUXTRON HV-FD DOWNLIGHTS (2022)**

	Manufacturer	Product ID	Type	Power	Neutral	RCS	Range	
					1)	2)	min	max
<b>Flush mounted dimmers</b>					<b>1)</b>	<b>2)</b>	<b>min</b>	<b>max</b>
1	ABB-Busch&Jaeger	6523 UR 103	RLC	2-400	X	x	0,2	100
2	CTM Lyng	MDimLed	LED	1-200	Y	x	0,0	100
3	Gira Berker Jung	1183 00/101	RL	20-500	X	?	0,0	99
4	Gira Berker Jung	1184 00/101	R	60-200	X	x	0,2	97
5	Legrand	0 02671	LED	3-75	Y	?	6,3	96
6	Legrand (Btinico)	L-N-NT4411N	LED	3-75	X	?	3,4	95
7	Lumiko /Klemko	D-PAF-200-LED	RC	1-200	X	x	0,0	98
8	Lutron	RRK-R25NE-240	LED	1-250	Y	x	0,1	98
9	Niko	310-0190X	Uni	5-325	Y	✓	0,0	98
10	Niko	310-0290X	LED	3-300	X	✓	0,1	99
11	Niko	310-0390X	Uni	3-200	X	✓	0,0	95
14	Feller	40600 RL	RL	20-300	X	x	0,0	96
15	Merten	SBD SPL	RL	9-100	X	?	0,2	100
16	Merten	SBD600 RL	RL	40-600	X	x	0,0	96
17	Simon Electric	DS9T2		5-315	Y	x	0,1	100
18	Unilamp/Belid	KDT 250 E-1	LED	5-250	X	?	0,7	98
19	Unilamp/Luzense	KTD-500 E4	LED	5-500	X	x	0,4	100
<b>Wireless remote controlled dimmers (Bluetooth, Zigbee, RF)</b>					<b>1)</b>	<b>2)</b>	<b>min</b>	<b>max</b>
20	Casambi	CBU-TED Bluetooth	RC	1-100	Y	x	0,1	100
21	Dimmax (Trump)	420BLE	RLC	1-380	Y			
22	Eaton LED	CDAU-01/04	RLC	0-250	Y	x	2,0	100
23	RAKO	RMT-500	RC	1-500	Y	✓	0,0	100
24	RAKO	RMT-PILL	RC	1-250	Y	✓	0,1	98
<b>Wired remote control dimmers ( pulse, Din-rail etc)</b>					<b>1)</b>	<b>2)</b>	<b>min</b>	<b>max</b>
25	Dimmax (Trump)	420SL	RLC	1-200	Y	x	2,1	98
26	Eltako	EUD61NPN-UC	RLC	400	Y	x	2,9	95
27	Niko	330-0700(=330-0701)	LED	5-350	Y	✓	0,1	100
28	Qbus	Dim02SA/500	uni	2-500	Y	✓	0,1	100

1) **Y** = neutral required; **X** = no neutral required

2) **x** = sensitive to RCS signals e.g. flicker; **✓** = not sensitive to RCS

This list is based on measurements in a lab environment with nominal voltage, a different voltage may result in a different dimming range. Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Illuxtron cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers. Disclaimer: Illuxtron will not accept claims for any damage caused by implementing the recommendations in this document.