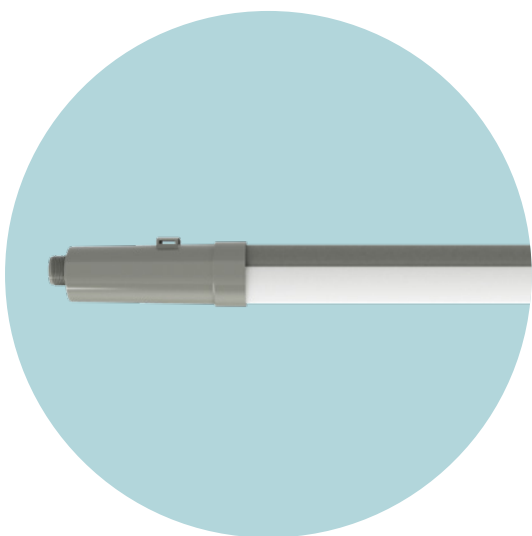


FORTIS

After carefully listening to our partners around the world and conducting extensive market research, we developed the FORTIS. An affordable LED tube lighting solution, suitable for pig, cattle, and poultry housing, as well as all working areas on the farm. A one-stop lighting solution and true all-rounder.



Specifications

Operating voltage	220 - 240 VAC
Power factor	0.9
Operating frequency	50-60 Hz
Flicker-free	Yes
Dim range	2 - 100%
Expected average lifetime*	35,000 h - L90B10 at 25°C
Dimmer type	HATO 230 dimmer or proper trailing edge dimmer
Operating temperature	-20°C (14°F) ~ +40°C (104°F)
Storage temperature	-25°C (-13°F) ~ +80°C (176°F)
Material	PC
Warranty	2 Years**
Application	Pigs - Cattle - Poultry

* Lifetime definition & measurement available upon request

** Ask your sales representative for the product specific warranty terms and conditions.

FORTIS

Product overview table

	Product number	Power Consumption	Light output	Efficacy	Light colour (CCT)	CRI	Tube lenght	Nett weight	Made in	Energy label
FORTIS 2 Connectors	7637	20.5W	3200lm	156 lm/W	5000K	> 80	150cm	900 gr / 1.98 lbs	China	
	7823	20.5W	3200lm	156 lm/W	5000K	> 80	120cm	750 gr / 1.65 lbs	China	
	7636	20.5W	3100lm	151 lm/W	4000K	> 80	150cm	900 gr / 1.98 lbs	China	
	7635	20.5W	2850lm	139 lm/W	3000K	> 80	150cm	900 gr / 1.98 lbs	China	
FORTIS 1 Connector	7760	20.5W	3200lm	156 lm/W	5000K	> 80	150cm	900 gr / 1.98 lbs	China	
	7822	20.5W	3200lm	156 lm/W	5000K	> 80	120cm	750 gr / 1.65 lbs	China	
	7759	20.5W	3100lm	151 lm/W	4000K	> 80	150cm	900 gr / 1.98 lbs	China	
	7758	20.5W	2850lm	139 lm/W	3000K	> 80	150cm	900 gr / 1.98 lbs	China	

Accessories



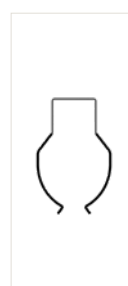
AC Connection cable



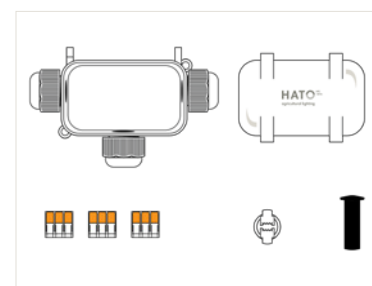
AC Extension cable



End cap



Mounting clips

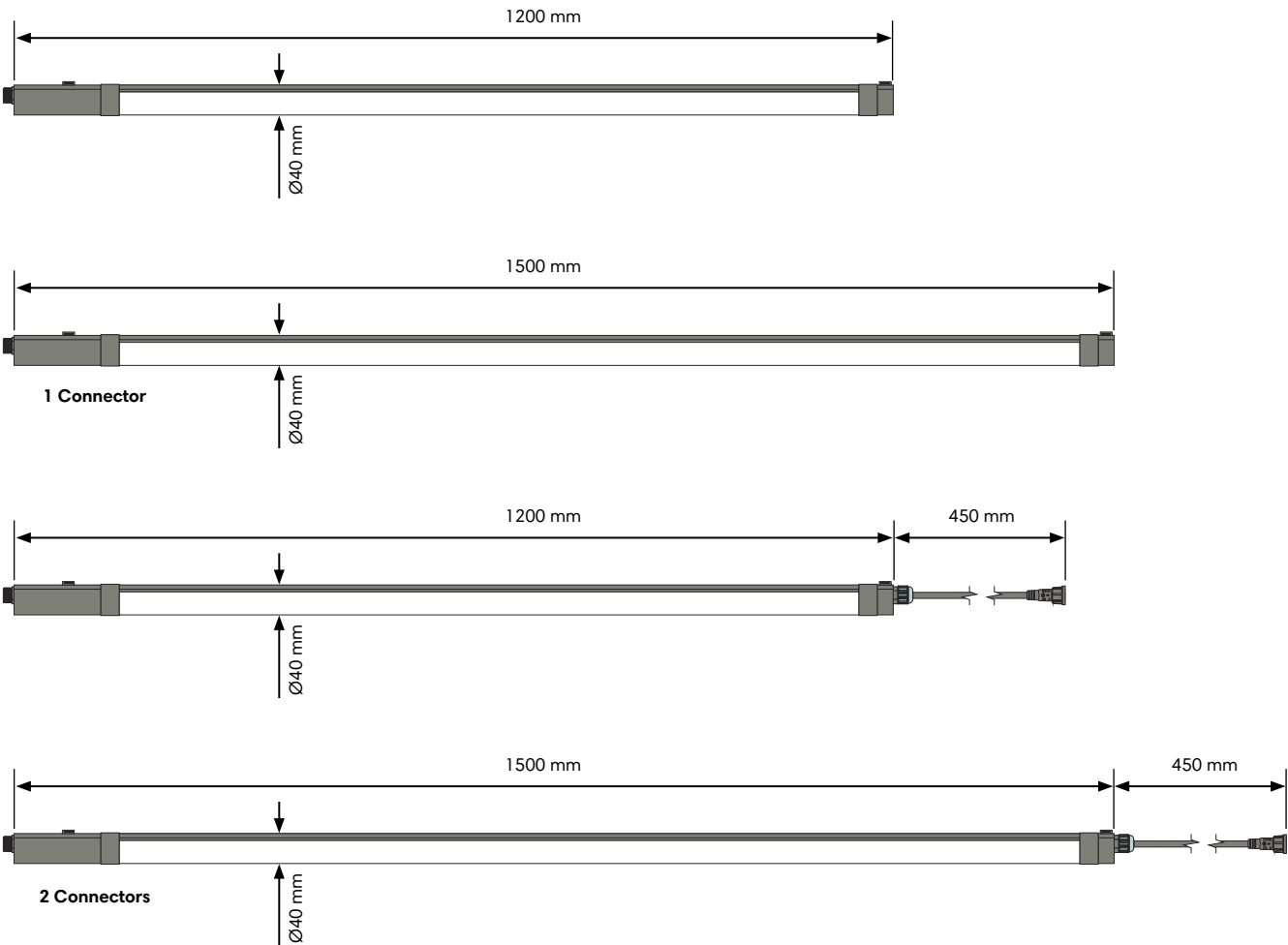


Junction box

HATO 230 DIMMER
(Phase dimming)Overvoltage
Protection Unit

FORTIS

Dimensions



Packaging information

2 connectors - 1500 mm

Size:	170x27.5x26 cm
Number of units per box:	20
Box netto weight:	13kg / 28.6lb

2 connectors - 1200 mm

Size:	140x27.5x26 cm
Number of units per box:	20
Box netto weight:	13kg / 28.6lb

1 connector - 1500 mm

Size:	155.5x27.5x26 cm
Number of units per box:	20
Box netto weight:	13kg / 28.6lb

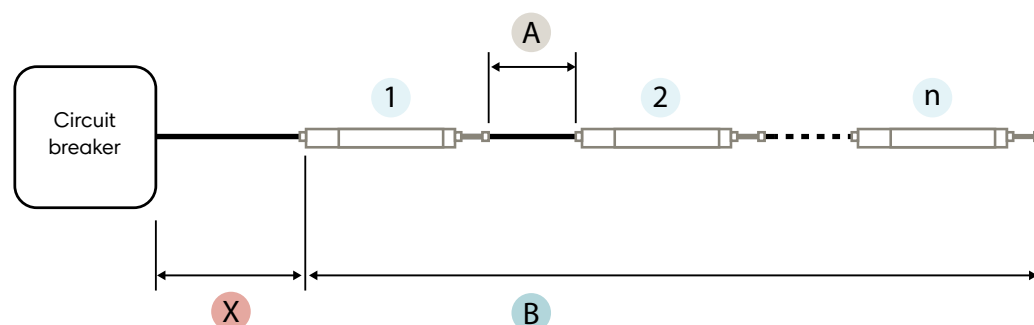
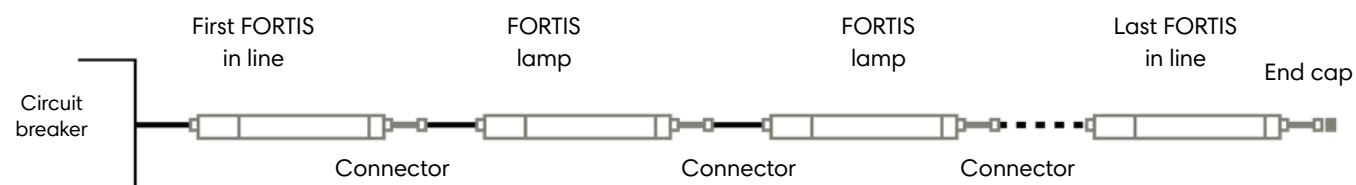
1 connector - 1200 mm

Size:	125.5x27.5x26 cm
Number of units per box:	20
Box netto weight:	13kg / 28.6lb

FORTIS

Example of standard installation

2 Connectors FORTIS



— · · · · Cable or connection cable

□ □ □ □ Lamp

Inrush current (cold start): 5.2 A

Inrush current time (T_{h50}): 100 μ s

X Maximum distance from circuit breaker: 15 m / 49ft

A Cable between lamps in standard installation

n Maximum number of lamps in a line*

B Maximum length of line

Circuit breaker:

Cable between lamps	0 m 0 inch	1 m 39 inch	4 m 157 inch
B10	43 lamps	43 lamps	27 lamps
	84 m 275 ft	129 m 423 ft	162 m 531 ft
C10	43 lamps	30 lamps	16 lamps
	84 m 275 ft	90 m 295 ft	96 m 315 ft
B16	37 lamps	23 lamps	12 lamps
	72 m 236 ft	69 m 226 ft	72 m 236 ft
C16	21 lamps	13 lamps	7 lamps
	41 m 134 ft	39 m 128 ft	42 m 138 ft

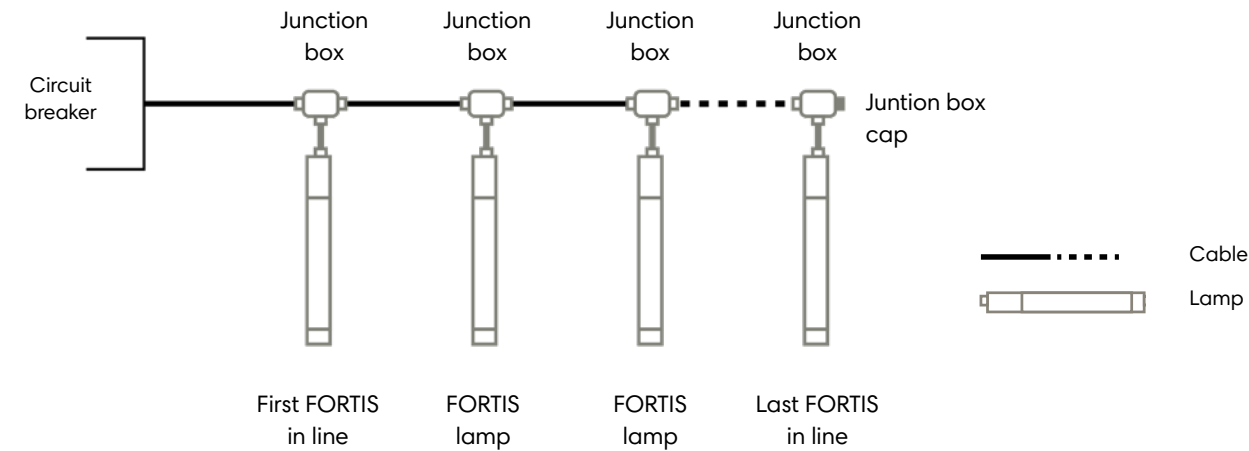
* Number of lamps connected to a HATO 230 Dimmer

Maximum	36 lamps
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FORTIS

Example of standard installation

1 Connector FORTIS



Inrush current (cold start): 5.2 A

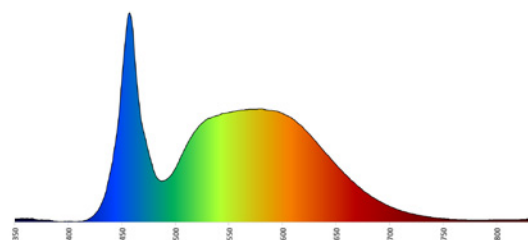
Inrush current time (T_{h50}): 100µs

Number of FORTIS behind a fuse

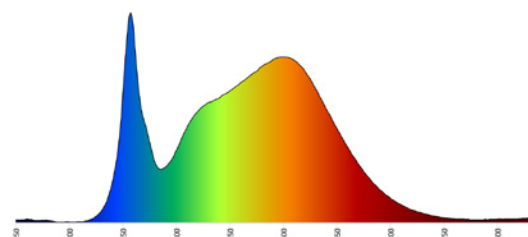
Number of lamps on a circuit breaker*	
Circuit breaker:	B10 65
	C10 75
	B16 105
	C16 120
* Number of lamps connected to a HATO 230 Dimmer	
Maximum	36 lamps

FORTIS

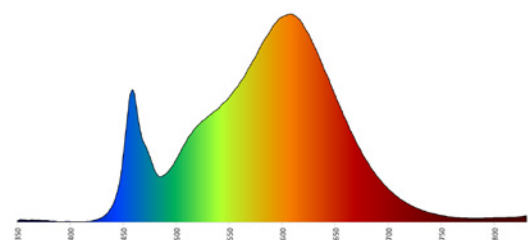
Spectrum



5000K - Pigs

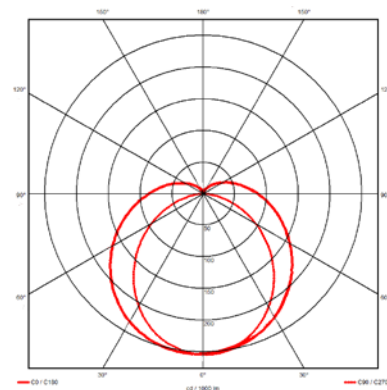


4000K - Cattle

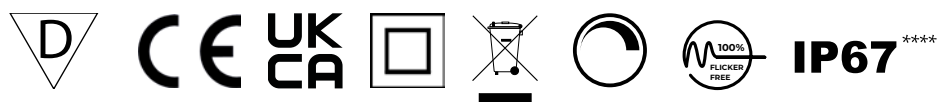


3000K - Poultry

Light spread



Markings



Specifications are subject to change without prior notice

In case of discrepancy, the English version shall prevail

**** Dust and water tight (can be cleaned with high pressure)