



HF-Matchbox Red

HF-M RED 109 SH TL/PL-S 230-240V

HF-Matchbox Red is an affordable, reliable, compact, lightweight and high-frequency ballast for use with system wattages below 25 W in combination with TL mini, TL-D, TL5 and TL5c, PL-T/C, and PL-L/S lamps. The HF-M Red range has a robust design, meets all relevant international safety and performance standards and has an energy efficiency index (CELMA EEI) of A2.

Product data

General Information		Colour input terminals	
Remarks	UK importer address: Signify Commercial UK Limited, 3, Guildford Business Park, GU2 8XG	Colour output terminals	Grey
Lamp type	TL/PL-S	Connector type output terminals	Insert
Number of lamps	1 piece/unit	Cable length from device to lamp	1.50 m
Number of products on MCB (16 A type B) (nom.)	159	Cable length hot-wiring	0.30 m
Automatic restart	Yes	Wire strip length	8.0-9.0 mm
Operating and Electrical		Input terminal cross section	0.50-1.50 mm ²
Input Voltage	230 to 240 V	Output terminal cross section	0.50-1.50 mm ²
Input frequency	50 to 60 Hz	System characteristics	
Power factor 100% load (nom.)	0.64	Rated ballast-lamp power	9 W
Ignition time (max.)	0.45 s	System power on PL-S	8.2 W
Mains voltage performance (AC)	-8%~+6%	Rated lamp power on PL-S	9 W
Mains voltage safety (AC)	-10%~+10%	Power loss on PL-S	1.7 W
Power losses (nom.)	1.7 W	Lamp power on PL-S	6.5 W
Efficiency at full load [%]	80.76 %	Lamp power on TL	5.3 W
Wiring		Rated lamp power on TL	9 W
Connector type input terminals	Insert	System power on TL	7 W
		Power loss on TL	1.7 W
		Temperature	
		T-ambient (max.)	40 °C

HF-Matchbox Red

T-ambient (min.)	-10 °C
T-Case maximum (max.)	75 °C
Mechanical and Housing	
Housing	SH
Emergency Operation	
Battery voltage lamp ignition	194-254 V
Approval and Application	
IP classification	IP 20 [Ingress Protection 20]
Approval marks	F-Marking CE marking ENEC certificate CB Certificate

Product Data	
Full product code	871150093142930
Order product name	HF-M RED 109 SH TL/PL-S 230-240V
EAN/UPC – product	8711500931429
Order code	93142930
Local order code	HFMRED109SH
SAP numerator – quantity per pack	1
Numerator – packs per outer box	50
SAP material	913700422866
SAP net weight (piece)	0.034 kg

Dimensional drawing

A2

Product	D1	C1	C2	A1	A2	B1
HF-M RED 109 SH	4.4 mm	22.0	10.0	80.0	70.0	40.0
TL/PL-S 230-240V		mm	mm	mm	mm	mm

HF-M RED 109 SH TL/PL-S 230-240V

