



09276E00

**Sheet-Steel Light Fittings**  
**Series 6014 (Zone 1)**  
**Series 6414 (Zones 2, 21 & 22)**

- With electronic ballast
- For two-pin fluorescent lamps
- As 1-, 2-, 3- or 4-lamp version
- Versions
  - pendant light fittings
  - wall-mounting light fittings
  - recessed light fittings
- Powder-coated sheet-steel or stainless steel
- Central lock
- All-pole disconnection via NC switch in positive opening operation when glass cover is opened (Series 6014)
- With hinged glass-cover, with hinged reflector plate
- End of Life switching-off 1 and 2 (only 6014)

Series 6014 and 6414 light fittings are preferred for use in spraying and painting installations but also in clean rooms.

# Zones 1 & 2, 21 & 22

## Sheet-Steel Light Fittings Series 6014 (Zone 1) Series 6414 (Zones 2, 21 & 22)



Selection table					
Version	Lamp wattage W	Number of lamps	Width mm	Ordering code	Weight kg
6014/5 Pendant light fitting (Zone 1)	18	1	280	6014/5121-8..1-6230-1	10,060
		2	280	6014/5122-9..1-6230-1	10,800
		3	380	6014/5223-9..1-6230-1	17,600
		4	380	6014/5224-9..1-6230-1	18,100
	36	1	280	6014/5141-8..1-0230-1	17,000
		2	280	6014/5142-9..1-0230-1	17,500
		3	380	6014/5243-9..1-0230-1	25,200
		4	380	6014/5244-9..1-0230-1	26,500
	58	1	280	6014/5161-8..1-0230-1	20,000
		2	280	6014/5162-9..1-0230-1	20,500
		3	380	6014/5263-9..1-0230-1	30,500
		4	380	6014/5264-9..1-0230-1	31,500
6014/6 Wall-mounting light fitting <sup>1)</sup> (Zone 1)	18	1	280	6014/6121-8..1-6230-1	10,090
		2	280	6014/6122-9..1-6230-1	11,500
		3	380	6014/6223-9..1-6230-1	18,000
		4	380	6014/6224-9..1-6230-1	18,500
	36	1	280	6014/6141-8..1-0230-1	17,400
		2	280	6014/6142-9..1-0230-1	17,900
		3	380	6014/6243-9..1-0230-1	25,900
		4	380	6014/6244-9..1-0230-1	26,900
	58	1	280	6014/6161-8..1-0230-1	20,500
		2	280	6014/6162-9..1-0230-1	20,900
		3	380	6014/6263-9..1-0230-1	30,900
		4	380	6014/6264-9..1-0230-1	31,900
6014/7 Recessed light fitting (Zone 1)	18	1	280	6014/7121-8..1-6230-1	12,300
		2	280	6014/7122-9..1-6230-1	11,000
		3	380	6014/7223-9..1-6230-1	19,000
		4	380	6014/7224-9..1-6230-1	19,500
	36	1	280	6014/7141-8..1-0230-1	18,400
		2	280	6014/7142-9..1-0230-1	18,100
		3	380	6014/7243-9..1-0230-1	27,500
		4	380	6014/7244-9..1-0230-1	29,500
	58	1	280	6014/7161-8..1-0230-1	22,100
		2	280	6014/7162-9..1-0230-1	21,800
		3	380	6014/7263-9..1-0230-1	32,800
		4	380	6014/7264-9..1-0230-1	33,800
Add. to ordering code					
Through wiring	without			6.14/.....0.....	
	with 3 cores			6.14/.....3.....	
	with 5 cores			6.14/.....5.....	
Cable entries	Standard	1 cable gland M 25 x 1,5, 1 cable gland M 25 x 1,5 with integrated plug and 1 plugs M 25 x 1,5		6.14/.....1.....	
	Special	Specify non-standard entries on writing		6.14/.....9.....	
Material	Standard	Sheet-steel, powder-coated -> no specification required			
	Special	Stainless steel 1.4301 (AISI 316Ti) -> state with order			
<p><b>Note</b> The light fittings are supplied without tubes and mounting material. These must be ordered separately.</p> <p><sup>1)</sup> Wall-mounting brackets must be ordered separately.</p>					

## Sheet-Steel Light Fittings

### Series 6014 (Zone 1)

### Series 6414 (Zones 2, 21 & 22)

Selection table						
Version	Lamp wattage W	Number of lamps	Width mm	Ordering code	Weight kg	
6414/5 Pendant light fitting (Zones 2, 21 & 22)	18	1	280	6414/5121-8..0-6230-1	10,600	
		2	280	6414/5122-9..0-6230-1	11,100	
		3	380	6414/5223-9..0-6230-1	17,600	
		4	380	6414/5224-9..0-6230-1	18,100	
	36	1	280	6414/5141-8..0-6230-1	17,000	
		2	280	6414/5142-9..0-6230-1	17,500	
		3	380	6414/5243-9..0-6230-1	25,500	
		4	380	6414/5244-9..0-6230-1	26,500	
	58	1	280	6414/5161-8..0-6230-1	20,000	
		2	280	6414/5162-9..0-6230-1	20,500	
		3	380	6414/5263-9..0-6230-1	30,500	
		4	380	6414/5264-9..0-6230-1	31,500	
	6414/6 Wall-mounting light fitting <sup>1)</sup> (Zones 2, 21 & 22)	18	1	280	6414/6121-8..0-6230-1	10,900
			2	280	6414/6122-9..0-6230-1	11,500
			3	380	6414/6223-9..0-6230-1	11,500
			4	380	6414/6224-9..0-6230-1	18,500
36		1	280	6414/6141-8..0-6230-1	17,400	
		2	280	6414/6142-9..0-6230-1	17,900	
		3	380	6414/6243-9..0-6230-1	25,900	
		4	380	6414/6244-9..0-6230-1	26,900	
58		1	280	6414/6161-8..0-6230-1	20,500	
		2	280	6414/6162-9..0-6230-1	20,900	
		3	380	6414/6263-9..0-6230-1	30,900	
		4	380	6414/6264-9..0-6230-1	31,900	
6414/7 Recessed light fitting (Zones 2, 21 & 22)		18	1	280	6414/7121-8..0-6230-1	12,300
			2	280	6414/7122-9..0-6230-1	12,800
			3	380	6414/7223-9..0-6230-1	19,000
			4	380	6414/7224-9..0-6230-1	19,500
	36	1	280	6414/7141-8..0-6230-1	18,400	
		2	280	6414/7142-9..0-6230-1	19,400	
		3	380	6414/7243-9..0-6230-1	27,500	
		4	380	6414/7244-9..0-6230-1	28,500	
	58	1	280	6414/7161-8..0-6230-1	18,400	
		2	280	6414/7162-9..0-6230-1	22,600	
		3	380	6414/7263-9..0-6230-1	32,800	
		4	380	6414/7264-9..0-6230-1	33,800	
	<b>Add. to ordering code</b>					
	Through wiring	without			6414/.....0.....	
		with 3 cores			6414/.....3.....	
		with 5 cores			6414/.....5.....	
Cable entries	Standard	1 cable gland M 25 x 1,5 and 2 plugs M 25 x 1,5		6414/.....1.....		
	Special	Specify non-standard entries on writing		6414/.....9.....		
Material	Standard	Sheet-steel, powder-coated -> no specification required				
	Special	Stainless steel 1.4301 (AISI 316Ti) -> state with order				
<b>Note</b>						
The light fittings are supplied without tubes and mounting material. These must be ordered separately.						
<sup>1)</sup> Wall-mounting brackets must be ordered separately.						

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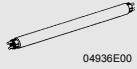
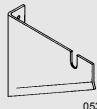



Technical Data	
Version	6014 (Zone 1)      6414 (Zones 2, 21 & 22)
Explosion protection	
Gas explosion protection	⊕ II 2 G EEx ed IIC T4      ⊕ II 3 G EEx n A II T4
Dust explosion protection	⊕ II 2 D IP 65 T80 °C / T90 °C      Zone 21: ⊕ II 2 D IP 65 T74 °C Zone 22: ⊕ II 3 D IP 65 T74 °C
Certificates	
Gas explosion protection	PTB 99 ATEX 2029      Zone 2: SNCH 01 ATEX 3281
Dust explosion protection	PTB 99 ATEX 2029      Zone 21: SNCH 03 ATEX 3572 Zone 22: SNCH 03 ATEX 3572
Marking	CE 0102
Rated voltage	AC: 220 V - 10% ... 240 V + 10%; 50/60 Hz DC: 198 V ... 254 V
Rated current	For light fittings with
	1 lamp      2 lamps      3 lamps      4 lamps
	18 W      0,1 A      0,18 A      0,28 A      0,36 A
	36 W      0,18 A      0,33 A      0,51 A      0,66 A
	58 W      0,25 A      0,49 A      0,74 A      0,98 A
Power factor cos φ	cos φ ≥ 0,96 capacitive; additional compensation not required
Ambient temperature	- 20 °C ... + 50 °C
Lamps	Two-pin fluorescent lamps; 26 mm diameter; for holder G13 1 x 18 W; 2 x 18 W; 3 x 18 W; 4 x 18 W; 1 x 36 W; 2 x 36 W; 3 x 36 W; 4 x 36 W; 1 x 58 W; 2 x 58 W; 3 x 58 W; 4 x 58 W
End of Life -Abschaltung	The ballast may also be manufactured with a modified electronic circuitry.      --  The electronic ballast, type 6042/9... meets the requirements according to IEC 61347-2-3 (simulation of the „end-of-life-effect“ or fluorescent lamps, test 1: „asymmetrical-pulse-test“ and test 2: „asymmetrical-power-test“ corresponding to the test conditions stated in the draft of IEC 60079-7 ed.4, annex H).
Protection	IP 65
Protection class	I (with internal PE-terminal)
Material	
Housing	Standard    Sheet-steel, powder-coated, colour white, similar to RAL 9016 Special      Stainless steel 1.4301 (AISI 304)
Gasket	EPDM formed gasket
Lens	Safety glass
Central lock	Central locking; glass cover hinged for access
Light guides	Reflector plate, can be swung out
Connections	Line-up terminals, 0,5 mm <sup>2</sup> ... 4 mm <sup>2</sup> solid / flexible
Switch-off	<b>of light fitting on opening</b> power to ballast is disconnected; switching element with 2 NC contacts in positive opening operation of faulty lamps if lamp is faulty, power supply is automatically switched off by the electronic ballast
	<b>of light fitting on opening</b> power to ballast is not disconnected of faulty lamps if lamp is faulty, power supply is automatically switched off by the electronic ballast
Cable glands	Standard    1 cable gland M 25 x 1.5 and 2 stopping plug M 25 x 1.5 Special      Specify non-standard entries in writing

## Sheet-Steel Light Fittings

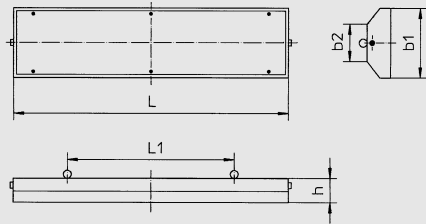
### Series 6014 (Zone 1)

### Series 6414 (Zones 2, 21 & 22)

Technical Data		
Mounting	Pendant light fitting	Light fitting top has 2 M 8 threaded rivets which allow use of different mounting parts, e. g. ring bolts.
	Wall-mounting light fitting	Each small end is fitted with one M 12 threaded bolt. The light fitting is hooked-in by these bolts to the mounting brackets and secured by lock nuts. The light fittings angle of inclination is infinitely variable.
	Recessed light fitting	Mounting frames with fixing holes are welded-on. Light fitting is inserted into ceiling cut-out and fixed via mounting frame. The frames are flush with the glass cover.

Accessories and spare parts				
Designation	Illustration	Description	Ordering code	Weight kg
Fluorescent lamps	 04936E00	18 W    1100 lm	<b>4617220</b>	0,100
		36 W    2600 lm	<b>4617210</b>	0,200
		58 W    4100 lm	<b>4617200</b>	0,283
Wall-mounting bracket	 05375E00	Material:                      Sheet steel    1 pair For light fittings width:    280 mm	<b>4617180</b>	1,000
		Material:                      Sheet steel    1 pair For light fittings width:    380 mm	<b>4617190</b>	1,200
Ring bolt	 05378E00	M 8, to mount directly into inserts, 1 pair	<b>6000803900</b>	0,107
Switch	 05651E00	Switch element 8080/1-3-L, 2 NC	<b>8080006600</b>	0,025
Breathing gland	 05703E00	for ventilating and draining M 25 x 1.5	<b>6000803960</b>	0,010

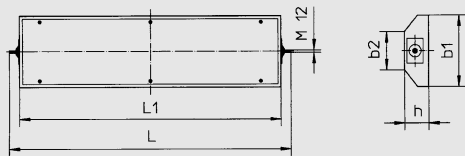
Dimension drawings (all dimensions in mm) - subject to alterations



0499E00

Version	Wattage	Number of lamps	Dimensions in mm				
			L	L1	h	b1	b2
18 W		1	730	550	120	280	206
		2	730	550	120	280	206
		3	730	550	120	380	246
		4	730	550	120	380	246
36 W		1	1340	950	120	280	206
		2	1340	950	120	280	206
		3	1340	950	120	380	246
		4	1340	950	120	380	246
58 W		1	1640	1250	120	280	206
		2	1640	1250	120	280	206
		3	1640	1250	120	380	246
		4	1640	1250	120	380	246

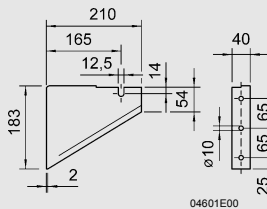
Pendant light fitting 6014/5 and 6414/5



04600E00

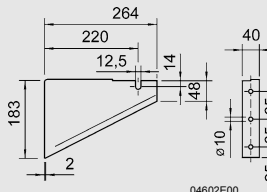
Version	Wattage	Number of lamps	Dimensions in mm				
			L	L1	h	b1	b2
18 W		1	830	730	120	280	206
		2	830	730	120	280	206
		3	830	730	120	380	246
		4	830	730	120	380	246
36 W		1	1440	1340	120	280	206
		2	1440	1340	120	280	206
		3	1440	1340	120	380	246
		4	1440	1340	120	380	246
58 W		1	1740	1640	120	280	206
		2	1740	1640	120	280	206
		3	1740	1640	120	380	246
		4	1740	1640	120	380	246

Wall-mounting light fitting 6014/6 and 6414/6



04601E00

Wall-mounting bracket for light fitting 6014/6 and 6414/6 narrow version (280 mm)



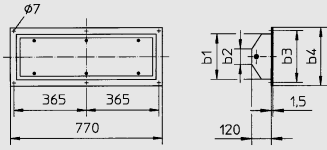
04602E00

Wall-mounting bracket for light fitting 6014/6 and 6414/6 broad version (380 mm)



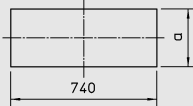
## Sheet-Steel Light Fittings Series 6014 (Zone 1) Series 6414 (Zones 2, 21 & 22)

Dimension drawings (all dimensions in mm) - subject to alterations



04596E00

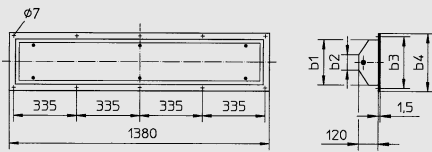
Light fitting



09672E00

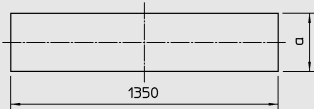
Cut-Out

Recessed light fitting 18 W 6014/7 and 6414/7



04587E00

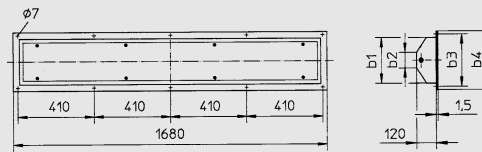
Light fitting



09673E00

Cut-Out

Recessed light fitting 36 W 6014/7 and 6414/7



0488E090

Light fitting



09674E00

Cut-Out

Recessed light fitting 58 W 6014/7 and 6414/7

Version	Wattage	Number of lamps	Dimensions in mm				
			b1	b2	b3	b4	a
18 W, 36 W, 58 W	1	1	280	206	305	320	290
	2	2	280	206	305	320	290
	3	3	380	246	405	420	390
	4	4	380	246	405	420	390