



The CLS IRMA is the perfect solution for all sort of applications where a compact DMX programmable RGB light source is being required. The CLS IRMA offers variable optics of 20°, 40° and 120°. Typical applications are RGB Cove lighting, use in decorsettings in TV, Theatre and live event shows.

## CLS IRMA

- 122500 CLS IRMA 3 in 1 RGB module 6 Watt, indiv. DMX addressable

## Included items

The CLS IRMA is shipped in one package containing the following items:

- 1 x CLS IRMA
- 1 x 20° lens
- 1 x user manual
- 1 x 40° lens

## Optional accessories

- 122600 CLS IRMA connector for power supply, 2-P
- 707028 CLS Zense DMX controller + built in 4 Amp RGB dimmer
- 707011 CLS BT45.24 LED power supply 24VDC 45VA 85-264VAC
- 707012 CLS BT75.24 LED power supply 24VDC 75VA 85-264VAC
- 707013 CLS BT120.24 LED power supply 24VDC 120VA 85-264VAC
- 707014 CLS BT240.24 LED power supply 24VDC 240VA 85-264VAC

## SAFETY INFORMATION

**Warning!** This product is for professional use only, not for domestic use. Read this manual before powering up or installing the CLS IRMA. Follow the instructions listed below and observe all warnings in this manual.

### Protection from electric shock

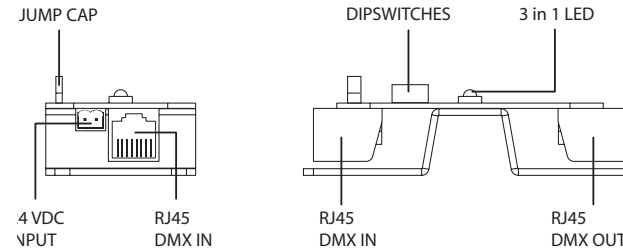
- Disconnect the power supply from AC power before installing, dismantling or maintaining the product.
- Make sure all connectors are connected properly.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- Do not expose the unit to rain or moisture.
- Refer all service to a qualified technician.

### Protection from burns and fire

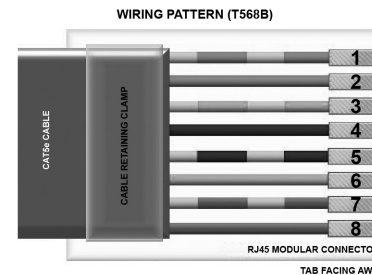
- Provide a clearance of at least 50 mm around the unit.
- Do not install the product near a heat source.
- Do not install the product in a corrosive, flammable or explosive area.
- Do not modify the product, or install other than genuine parts.
- Do not operate the product if the ambient temperature exceeds 40 °C.
- Do not stare into the LED, this can cause damage to the eyes.
- Operate in a well-ventilated area.

Installing the CLS IRMA has never been easier. The IRMA contains 4 mounting holes so no profile or mounting clips are necessary. Due to the RJ45 connector only a CAT5 cable is needed to connect 1 IRMA to another IRMA.

## Function schema



## Wiring configuration



PIN	COLOUR	FUNCTION
1	Orange/white	PWR -
2	Orange	PWR +
3	Green/White	Not connected
4	Blue	DMX data -
5	Blue/White	DMX data +
6	Green	Not connected
7	Brown/White	PWR +
8	Brown	PWR - (DMX com)

# WIRING DIAGRAM

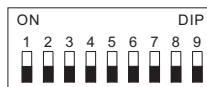
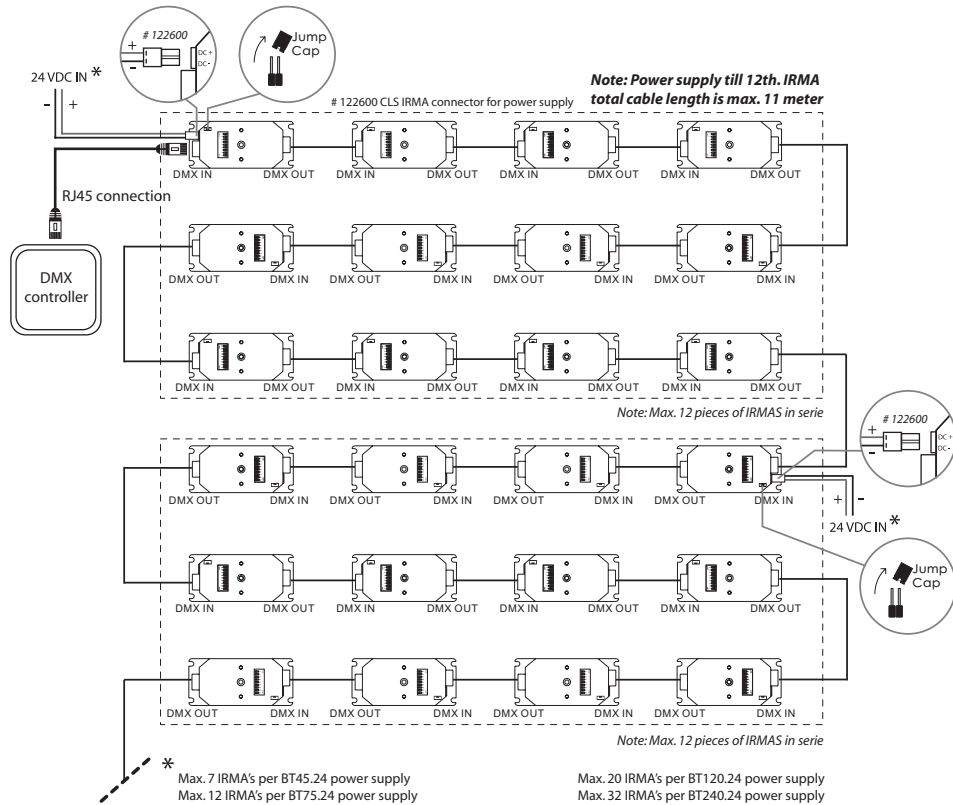
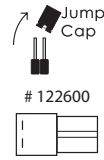
# ADDRESS SETTING

**WARNING**

**ATTENTION!**

Please remove the 'jump cap' from the IRMA modules which are connected with the power supplies.

This connector is mandatory for each 1st. IRMA module and after each 12th. IRMA module. Max. cable length is 11 meter.



**ADDRESS SETTING**

For setting up a DMX address, follow the Chart on the next page.

1 = 0	51 = 2, 5, 6	101 = 3, 6, 7	151 = 2, 3, 5, 8
2 = 1	52 = 1, 2, 5, 6	102 = 1, 3, 6, 7	152 = 1, 2, 3, 5, 8
3 = 2	53 = 3, 5, 6	103 = 2, 3, 6, 7	153 = 4, 5, 8
4 = 1, 2	54 = 1, 3, 5, 6	104 = 1, 2, 3, 6, 7	154 = 1, 4, 5, 8
5 = 3	55 = 2, 3, 5, 6	105 = 4, 6, 7	155 = 2, 4, 5, 8
6 = 1, 3	56 = 1, 2, 3, 5, 6	106 = 1, 4, 6, 7	156 = 1, 2, 4, 5, 8
7 = 2, 3	57 = 4, 5, 6	107 = 2, 4, 6, 7	157 = 3, 4, 5, 8
8 = 1, 2, 3	58 = 1, 4, 5, 6	108 = 1, 2, 4, 6, 7	158 = 1, 3, 4, 5, 8
9 = 4	59 = 2, 4, 5, 6	109 = 3, 4, 6, 7	159 = 2, 3, 4, 5, 8
10 = 1, 4	60 = 1, 2, 4, 5, 6	110 = 1, 3, 4, 6, 7	160 = 1, 2, 3, 4, 5, 8
11 = 2, 4	61 = 3, 4, 5, 6	111 = 2, 3, 4, 6, 7	161 = 6, 8
12 = 1, 2, 4	62 = 1, 3, 4, 5, 6	112 = 1, 2, 3, 4, 6, 7	162 = 1, 6, 8
13 = 3, 4	63 = 2, 3, 4, 5, 6	113 = 5, 6, 7	163 = 2, 6, 8
14 = 1, 3, 4	64 = 1, 2, 3, 4, 5, 6	114 = 1, 5, 6, 7	164 = 1, 2, 6, 8
15 = 2, 3, 4	65 = 7	115 = 2, 5, 6, 7	165 = 3, 6, 8
16 = 1, 2, 3, 4	66 = 1, 7	116 = 1, 2, 5, 6, 7	166 = 1, 3, 6, 8
17 = 5	67 = 2, 7	117 = 3, 5, 6, 7	167 = 2, 3, 6, 8
18 = 1, 5	68 = 1, 2, 7	118 = 1, 3, 5, 6, 7	168 = 1, 2, 3, 6, 8
19 = 2, 5	69 = 3, 7	119 = 2, 3, 5, 6, 7	169 = 4, 6, 8
20 = 1, 2, 5	70 = 1, 3, 7	120 = 1, 2, 3, 5, 6, 7	170 = 1, 4, 6, 8
21 = 3, 5	71 = 2, 3, 7	121 = 4, 5, 6, 7	171 = 2, 4, 6, 8
22 = 1, 3, 5	72 = 1, 2, 3, 7	122 = 1, 4, 5, 6, 7	172 = 1, 2, 4, 6, 8
23 = 2, 3, 5	73 = 4, 7	123 = 2, 4, 5, 6, 7	173 = 3, 4, 6, 8
24 = 1, 2, 3, 5	74 = 1, 4, 7	124 = 1, 2, 4, 5, 6, 7	174 = 1, 3, 4, 6, 8
25 = 4, 5	75 = 2, 4, 7	125 = 3, 4, 5, 6, 7	175 = 2, 3, 4, 6, 8
26 = 1, 4, 5	76 = 1, 2, 4, 7	126 = 1, 3, 4, 5, 6, 7	176 = 1, 2, 3, 4, 6, 8
27 = 2, 4, 5	77 = 3, 4, 7	127 = 2, 3, 4, 5, 6, 7	177 = 5, 6, 8
28 = 1, 2, 4, 5	78 = 1, 3, 4, 7	128 = 1, 2, 3, 4, 5, 6, 7	178 = 1, 5, 6, 8
29 = 3, 4, 5	79 = 2, 3, 4, 7	129 = 8	179 = 2, 5, 6, 8
30 = 1, 3, 4, 5	80 = 1, 3, 4, 7	130 = 1, 8	180 = 1, 2, 5, 6, 8
31 = 2, 3, 4, 5	81 = 5, 7	131 = 2, 8	181 = 3, 5, 6, 8
32 = 1, 2, 3, 4, 5	82 = 1, 5, 7	132 = 1, 2, 8	182 = 1, 3, 5, 6, 8
33 = 6	83 = 2, 5, 7	133 = 3, 8	183 = 2, 3, 5, 6, 8
34 = 1, 6	84 = 1, 2, 5, 7	134 = 1, 3, 8	184 = 1, 2, 3, 5, 6, 8
35 = 2, 6	85 = 3, 5, 7	135 = 2, 3, 8	185 = 4, 5, 6, 8
36 = 1, 2, 6	86 = 1, 3, 5, 7	136 = 1, 2, 3, 8	186 = 1, 4, 5, 6, 8
37 = 3, 6	87 = 2, 3, 5, 7	137 = 4, 8	187 = 2, 4, 5, 6, 8
38 = 1, 3, 6	88 = 1, 2, 3, 5, 7	138 = 1, 4, 8	188 = 1, 2, 4, 5, 6, 8
39 = 2, 3, 6	89 = 4, 5, 7	139 = 2, 4, 8	189 = 3, 4, 5, 6, 8
40 = 1, 2, 3, 6	90 = 1, 4, 5, 7	140 = 1, 2, 4, 8	190 = 1, 3, 4, 5, 6, 8
41 = 4, 6	91 = 2, 4, 5, 7	141 = 3, 4, 8	191 = 2, 3, 4, 5, 6, 8
42 = 1, 4, 6	92 = 1, 2, 4, 5, 7	142 = 1, 3, 4, 8	192 = 1, 2, 3, 4, 5, 6, 8
43 = 2, 4, 6	93 = 3, 4, 5, 7	143 = 2, 3, 4, 8	193 = 7, 8
44 = 1, 2, 4, 6	94 = 1, 3, 4, 5, 7	144 = 1, 2, 3, 4, 8	194 = 1, 7, 8
45 = 3, 4, 6	95 = 2, 3, 4, 5, 7	145 = 5, 8	195 = 2, 7, 8
46 = 1, 3, 4, 6	96 = 1, 2, 3, 4, 5, 7	146 = 1, 5, 8	196 = 1, 2, 7, 8
47 = 2, 3, 4, 6	97 = 6, 7	147 = 2, 5, 8	197 = 3, 7, 8
48 = 1, 2, 3, 4, 6	98 = 1, 6, 7	148 = 1, 2, 5, 8	198 = 1, 3, 7, 8
49 = 5, 6	99 = 2, 6, 7	149 = 3, 5, 8	199 = 2, 3, 7, 8
50 = 1, 5, 6	100 = 1, 2, 6, 7	150 = 1, 3, 5, 8	200 = 1, 2, 3, 7, 8



201 = 4, 7, 8, 202 = 1, 4, 7, 8, 203 = 2, 4, 7, 8, 204 = 1, 2, 4, 7, 8, 205 = 3, 4, 7, 8, 206 = 1, 3, 4, 7, 8, 207 = 2, 3, 4, 7, 8, 208 = 1, 2, 3, 4, 7, 8, 209 = 5, 7, 8, 210 = 1, 5, 7, 8, 211 = 2, 5, 7, 8, 212 = 1, 2, 5, 7, 8, 213 = 3, 5, 7, 8, 214 = 1, 3, 5, 7, 8, 215 = 2, 3, 5, 7, 8, 216 = 1, 2, 3, 5, 7, 8, 217 = 4, 5, 7, 8, 218 = 1, 4, 5, 7, 8, 219 = 2, 4, 5, 7, 8, 220 = 1, 2, 4, 5, 7, 8, 221 = 3, 4, 5, 7, 8, 222 = 1, 3, 4, 5, 7, 8, 223 = 2, 3, 4, 5, 7, 8, 224 = 1, 2, 3, 4, 5, 7, 8, 225 = 6, 7, 8, 226 = 1, 6, 7, 8, 227 = 2, 6, 7, 8, 228 = 1, 2, 6, 7, 8, 229 = 3, 6, 7, 8, 230 = 1, 3, 6, 7, 8, 231 = 2, 3, 6, 7, 8, 232 = 1, 2, 3, 6, 7, 8, 233 = 4, 6, 7, 8, 234 = 1, 4, 6, 7, 8, 235 = 2, 4, 6, 7, 8, 236 = 1, 2, 4, 6, 7, 8, 237 = 3, 4, 6, 7, 8, 238 = 1, 3, 4, 6, 7, 8, 239 = 2, 3, 4, 6, 7, 8, 240 = 1, 2, 3, 4, 6, 7, 8, 241 = 5, 6, 7, 8, 242 = 1, 5, 6, 7, 8, 243 = 2, 5, 6, 7, 8, 244 = 1, 2, 5, 6, 7, 8, 245 = 3, 5, 6, 7, 8, 246 = 1, 3, 5, 6, 7, 8, 247 = 2, 3, 5, 6, 7, 8, 248 = 1, 2, 3, 5, 6, 7, 8, 249 = 4, 5, 6, 7, 8, 250 = 1, 4, 5, 6, 7, 8,

251 = 2, 4, 5, 6, 7, 8, 252 = 1, 2, 4, 5, 6, 7, 8, 253 = 3, 4, 5, 6, 7, 8, 254 = 1, 3, 4, 5, 6, 7, 8, 255 = 2, 3, 4, 5, 6, 7, 8, 256 = 1, 2, 3, 4, 5, 6, 7, 8, 257 = 9, 258 = 1, 9, 259 = 2, 9, 260 = 1, 2, 9, 261 = 3, 9, 262 = 1, 3, 9, 263 = 2, 3, 9, 264 = 1, 2, 3, 9, 265 = 4, 9, 266 = 1, 4, 9, 267 = 2, 4, 9, 268 = 1, 2, 4, 9, 269 = 3, 4, 9, 270 = 1, 3, 4, 9, 271 = 2, 3, 4, 9, 272 = 1, 2, 3, 4, 9, 273 = 5, 9, 274 = 1, 5, 9, 275 = 2, 5, 9, 276 = 1, 2, 5, 9, 277 = 3, 5, 9, 278 = 1, 3, 5, 9, 279 = 2, 3, 5, 9, 280 = 1, 2, 3, 5, 9, 281 = 4, 5, 9, 282 = 1, 4, 5, 9, 283 = 2, 4, 5, 9, 284 = 1, 2, 4, 5, 9, 285 = 3, 4, 5, 9, 286 = 1, 3, 4, 5, 9, 287 = 2, 3, 4, 5, 9, 288 = 1, 2, 3, 4, 5, 9, 289 = 6, 9, 290 = 1, 6, 9, 291 = 2, 6, 9, 292 = 1, 2, 6, 9, 293 = 3, 6, 9, 294 = 1, 3, 6, 9, 295 = 2, 3, 6, 9, 296 = 1, 2, 3, 6, 9, 297 = 4, 6, 9, 298 = 1, 4, 6, 9, 299 = 2, 4, 6, 9, 300 = 1, 2, 4, 6, 9,

301 = 3, 4, 6, 9, 302 = 1, 3, 4, 6, 9, 303 = 2, 3, 4, 6, 9, 304 = 1, 2, 3, 4, 6, 9, 305 = 5, 6, 9, 306 = 1, 5, 6, 9, 307 = 2, 5, 6, 9, 308 = 1, 2, 5, 6, 9, 309 = 3, 5, 6, 9, 310 = 1, 3, 5, 6, 9, 311 = 2, 3, 5, 6, 9, 312 = 1, 2, 3, 5, 6, 9, 313 = 4, 5, 6, 9, 314 = 1, 4, 5, 6, 9, 315 = 2, 4, 5, 6, 9, 316 = 1, 2, 4, 5, 6, 9, 317 = 3, 4, 5, 6, 9, 318 = 1, 3, 4, 5, 6, 9, 319 = 2, 3, 4, 5, 6, 9, 320 = 1, 2, 3, 4, 5, 6, 9, 321 = 7, 9, 322 = 1, 7, 9, 323 = 2, 7, 9, 324 = 1, 2, 7, 9, 325 = 3, 7, 9, 326 = 1, 3, 7, 9, 327 = 2, 3, 7, 9, 328 = 1, 2, 3, 7, 9, 329 = 4, 7, 9, 330 = 1, 4, 7, 9, 331 = 2, 4, 7, 9, 332 = 1, 2, 4, 7, 9, 333 = 3, 4, 7, 9, 334 = 1, 3, 4, 7, 9, 335 = 2, 3, 4, 7, 9, 336 = 1, 2, 3, 4, 7, 9, 337 = 5, 7, 9, 338 = 1, 5, 7, 9, 339 = 2, 5, 7, 9, 340 = 1, 2, 5, 7, 9, 341 = 3, 5, 7, 9, 342 = 1, 3, 5, 7, 9, 343 = 2, 3, 5, 7, 9, 344 = 1, 2, 3, 5, 7, 9, 345 = 4, 5, 7, 9, 346 = 1, 4, 5, 7, 9, 347 = 2, 4, 5, 7, 9, 348 = 1, 2, 4, 5, 7, 9, 349 = 3, 4, 5, 7, 9, 350 = 1, 3, 4, 5, 7, 9,

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401 = 5, 8, 9, 402 = 1, 5, 8, 9, 403 = 2, 5, 8, 9, 404 = 1, 2, 5, 8, 9, 405 = 3, 5, 8, 9, 406 = 1, 3, 5, 8, 9, 407 = 2, 3, 5, 8, 9, 408 = 1, 2, 3, 5, 8, 9, 409 = 4, 5, 8, 9, 410 = 1, 4, 5, 8, 9, 411 = 2, 4, 5, 8, 9, 412 = 1, 2, 4, 5, 8, 9, 413 = 3, 4, 5, 8, 9, 414 = 1, 3, 4, 5, 8, 9, 415 = 2, 3, 4, 5, 8, 9, 416 = 1, 2, 3, 4, 5, 8, 9, 477 = 6, 8, 9, 418 = 1, 6, 8, 9, 419 = 2, 6, 8, 9, 420 = 1, 2, 6, 8, 9, 421 = 3, 6, 8, 9, 422 = 1, 3, 6, 8, 9, 423 = 2, 3, 6, 8, 9, 424 = 1, 2, 3, 6, 8, 9, 425 = 4, 6, 8, 9, 426 = 1, 4, 6, 8, 9, 427 = 2, 4, 6, 8, 9, 428 = 1, 2, 4, 6, 8, 9, 429 = 3, 4, 6, 8, 9, 430 = 1, 3, 4, 6, 8, 9, 431 = 2, 3, 4, 6, 8, 9, 432 = 1, 2, 3, 4, 6, 8, 9, 433 = 5, 6, 8, 9, 434 = 1, 5, 6, 8, 9, 435 = 2, 5, 6, 8, 9, 436 = 1, 2, 5, 6, 8, 9, 437 = 3, 5, 6, 8, 9, 438 = 1, 3, 5, 6, 8, 9, 439 = 2, 3, 5, 6, 8, 9, 440 = 1, 2, 3, 5, 6, 8, 9, 441 = 4, 5, 6, 8, 9, 442 = 1, 4, 5, 6, 8, 9, 443 = 2, 4, 5, 6, 8, 9, 444 = 1, 2, 4, 5, 6, 8, 9, 445 = 3, 4, 5, 6, 8, 9, 446 = 1, 3, 4, 5, 6, 8, 9, 447 = 2, 3, 4, 5, 6, 8, 9, 448 = 1, 2, 3, 4, 5, 6, 8, 9, 449 = 7, 8, 9, 450 = 1, 7, 8, 9,

451 = 2, 7, 8, 9, 452 = 1, 2, 7, 8, 9, 453 = 3, 7, 8, 9, 454 = 1, 3, 7, 8, 9, 455 = 2, 3, 7, 8, 9, 456 = 1, 2, 3, 7, 8, 9, 457 = 4, 7, 8, 9, 458 = 1, 4, 7, 8, 9, 459 = 2, 4, 7, 8, 9, 460 = 1, 2, 4, 7, 8, 9, 461 = 3, 4, 7, 8, 9, 462 = 1, 3, 4, 7, 8, 9, 463 = 2, 3, 4, 7, 8, 9, 464 = 1, 2, 3, 4, 7, 8, 9, 465 = 5, 7, 8, 9, 466 = 1, 5, 7, 8, 9, 467 = 2, 5, 7, 8, 9, 468 = 1, 2, 5, 7, 8, 9, 469 = 3, 5, 7, 8, 9, 470 = 1, 3, 5, 7, 8, 9, 471 = 2, 3, 5, 7, 8, 9, 472 = 1, 2, 3, 5, 7, 8, 9, 473 = 4, 5, 7, 8, 9, 474 = 1, 4, 5, 7, 8, 9, 475 = 2, 4, 5, 7, 8, 9, 476 = 1, 2, 4, 5, 7, 8, 9, 477 = 3, 4, 5, 7, 8, 9, 478 = 1, 3, 4, 5, 7, 8, 9, 479 = 2, 3, 4, 5, 7, 8, 9, 480 = 1, 2, 3, 4, 5, 7, 8, 9, 481 = 6, 7, 8, 9, 482 = 1, 6, 7, 8, 9, 483 = 2, 6, 7, 8, 9, 484 = 1, 2, 6, 7, 8, 9, 485 = 3, 6, 7, 8, 9, 486 = 1, 3, 6, 7, 8, 9, 487 = 2, 3, 6, 7, 8, 9, 488 = 1, 2, 3, 6, 7, 8, 9, 489 = 4, 6, 7, 8, 9, 490 = 1, 4, 6, 7, 8, 9, 491 = 2, 4, 6, 7, 8, 9, 492 = 1, 2, 4, 6, 7, 8, 9, 493 = 3, 4, 6, 7, 8, 9, 494 = 1, 3, 4, 6, 7, 8, 9, 495 = 2, 3, 4, 6, 7, 8, 9, 496 = 1, 2, 3, 4, 6, 7, 8, 9, 497 = 5, 6, 7, 8, 9, 498 = 1, 5, 6, 7, 8, 9, 499 = 2, 5, 6, 7, 8, 9, 500 = 1, 2, 5, 6, 7, 8, 9,

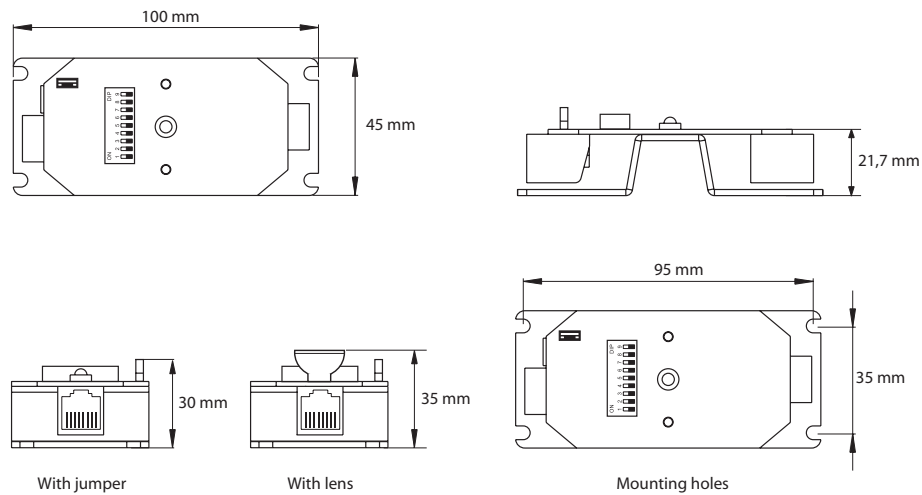
501 = 3, 5, 6, 7, 8, 9, 502 = 1, 3, 5, 6, 7, 8, 9, 503 = 2, 3, 5, 6, 7, 8, 9, 504 = 1, 2, 3, 5, 6, 7, 8, 9, 505 = 4, 5, 6, 7, 8, 9, 506 = 1, 4, 5, 6, 7, 8, 9, 507 = 2, 4, 5, 6, 7, 8, 9, 508 = 1, 2, 4, 5, 6, 7, 8, 9, 509 = 3, 4, 5, 6, 7, 8, 9, 510 = 1, 3, 4, 5, 6, 7, 8, 9, 511 = 2, 3, 4, 5, 6, 7, 8, 9, 512 = 1, 2, 3, 4, 5, 6, 7, 8, 9,



# TECHNICAL SPECIFICATIONS

LEDs:	3 in 1 RGB
Available colours:	RGB
Lens:	20°, 40° and 120°
Power supply:	24 VDC
Power consumption:	Max. 6 Watt
Housing:	Aluminum
Signal cable connector:	RJ45
Measurements:	21,7 x 100 x 45 mm (hxwx d)
Weight:	56 gr
IP value:	IP20
Ambient temperature:	-10 °C till +40 °C

## MEASUREMENTS



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# LIST OF SYMBOLS

	<b>Protection class</b> One, two or three		<b>IP value</b> Ingress Protection classifies the degrees of protection provided against the intrusion of the product
	<b>Application area</b> Indoor or outdoor		<b>Colour</b> Available colours; Amber, blue, red or green
	<b>Application area</b> Floor, wall or ceiling		<b>White colour temperature</b> In different Kelvin values; Cold white, neutral white, warm white or extra warm white
	<b>Swivel</b> Fixture is horizontally rotatable, indicated in degrees		<b>Colour changing</b> RGB, RGB-W, RGB-A or AWB
	<b>Swivel</b> Fixture is vertically rotatable, indicated in degrees		<b>Dynamic White</b> Stepless control of white light
	<b>Multiple connection</b> Daisy chain connectivity		<b>Curve</b> Minimal bending curve in centimeters
	<b>Installation depth</b> In centimeters		<b>Cutting length</b> Indicated by the cutting marks
	<b>Installation size</b> In centimeters		<b>LED pitch</b> Pitch between the LEDs in millimeters
	<b>Cable length</b> Maximum cable attached to the fixture in centimeters		<b>Power supply</b> In VDC, VAC or milliAmpere
	<b>Driver</b> Inclusive or exclusive		<b>Power consumption</b> In VA or Watt
	<b>Weight</b> In grams/kilograms		<b>Dimmable</b> 1-10 Volt, Phase, individual, DMX dimmable or DALI
	<b>Pressure</b> Maximum pressure on the fixture in kg/cm²		<b>Magno dimming</b> Accurate dimming from 100 - 1% by using a magnet
	<b>Lifespan</b> Of the light source in hours		<b>DMX input</b> Fixture works on DMX512 protocol
	<b>Lenses</b> Available lenses, indicated in degrees		<b>Combined product</b> Compose your own fixture
	<b>Warranty</b> 3 or 5 years warranty on the product		<b>Conformité Européenne</b> CE marking for free marketability of industrial goods within the EU
	<b>LEDs</b> Kind of LED used in the fixture		<b>Energy label</b>
	<b>Plug &amp; play</b> Easy connection using the SmartConnect system		

