



MODELS

Illuminators

- SIL LINE
- SIL AREA
- SIL BACK
- SIL RING
- SIL SPOT

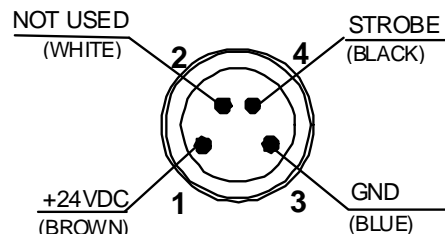
LED Drivers

- LD2

CONNECTIONS

SIL LINE/AREA/SPOT/BACK

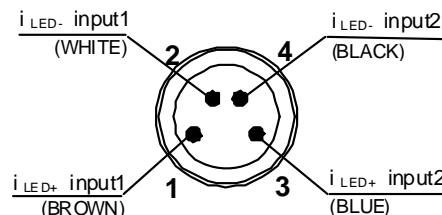
M8 4 pole male connector



- 1 = BROWN = +24 VDC
- 2 = WHITE = NOT USED
- 3 = BLUE = GND
- 4 = BLACK = STROBE

SIL RING

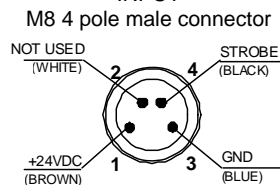
M8 4 pole male connector



- 1 = BROWN = i_{LED+} input1
- 2 = WHITE = i_{LED-} input1
- 3 = BLUE = i_{LED+} input2
- 4 = BLACK = i_{LED-} input2

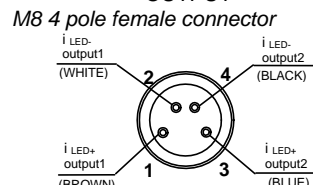
LED DRIVER LD2

INPUT



- 1 = BROWN = +24 VDC
- 2 = WHITE = NOT USED
- 3 = BLUE = GND
- 4 = BLACK = STROBE

OUTPUT



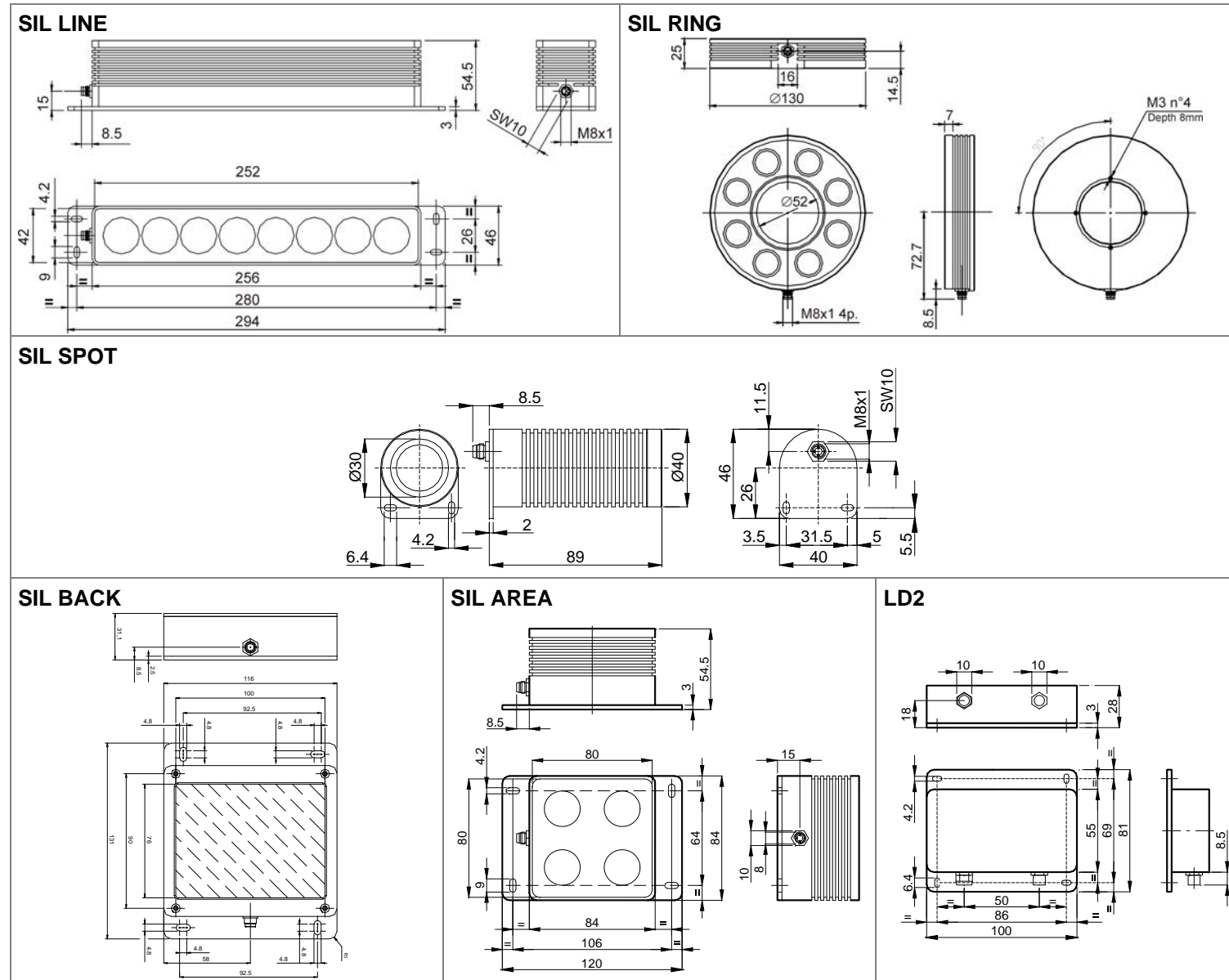
- 1 = BROWN = i_{LED+} output1
- 2 = WHITE = i_{LED-} output1
- 3 = BLUE = i_{LED+} output2
- 4 = BLACK = i_{LED-} output2

TECHNICAL DATA

Illuminators	SIL LINE	SIL AREA	SIL RING	SIL BACK	SIL SPOT
Power Supply:	24 VDC ± 10%	24 VDC ± 10%	LD2 (2x350mA constant current)	24 VDC ± 10%	24 Vdc ± 10%
Current consumption*:	350 mA max	170 mA max	350 mA max	350 mA max	80 mA max
Strobe Signal (required):	Voltage 5...24 VDC, frequency 0...1 kHz				
Colour:	Red, blue, green, white, IR				
Light Intensity @ 500mm distance:	1000 lux	500 lux	250 lux	150 cd/m ²	250 lux
Emission Angle:	25°, 10°, 45°, 10 x 30°				
Material:	Black anodized aluminium				
Connections:	M8 4-pole connector				
Mechanical Protection:	IP65				
Operating Temp.:	-10...+40 °C				
Storage Temp.:	-25...+70 °C				
LED driver LD2					
Input voltage:	24 VDC ± 10%				
Output current:	2 x 350mA ±5%				
Strobe Signal:	Voltage 5...24 VDC, frequency max 0...1 kHz				
Connections:	2 x M8 4-pole connectors				

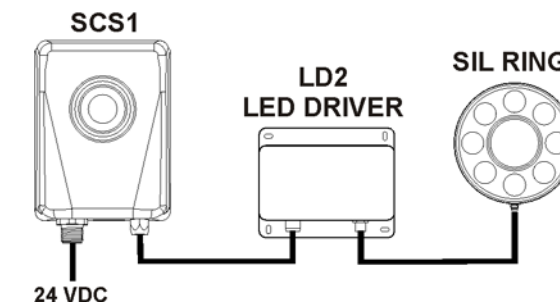
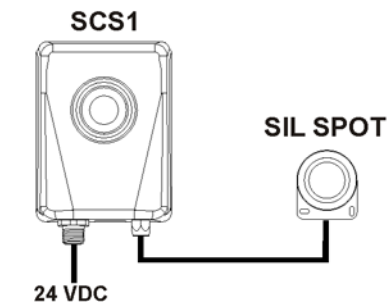
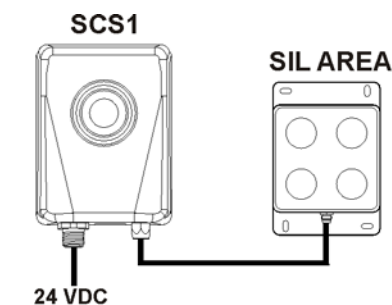
*consider 30mA of extra current at powering

DIMENSIONS



APPLICATION NOTE

Some examples of possible use of SIL illuminators connected to Datasensor's SCS1 Smart Camera are given below:



For different Smart Cameras or lighting solutions please refer to the connection scheme.

N.B.: For a correct functioning of the illuminator, the strobe pin must be always connected. In order to deliver a strobe light, a strobe signal is required (e.g. SCS1 provides it). In order to deliver a continuous light, a constant voltage between 5Vdc and 24Vdc has to be used.

DECLARATION OF CONFORMITY

We DATASENSOR S.p.A. declare under our sole responsibility that these products are conform to the 2004/108/CE, 2006/95/CE Directives and successive amendments.

WARRANTY

DATASENSOR S.p.A. warrants its products to be free from defects. DATASENSOR S.p.A. will repair or replace, free of charge, any product found to be defective during the warranty period of 36 months from the manufacturing date. This warranty does not cover damage or liability deriving from the improper application of DATASENSOR products.

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