DATALOGIC™

SIL/LD SERIES
Illuminators and LED drivers

ISTRUCTION MANUAL

MODELS

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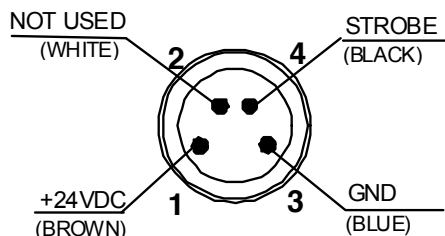- SIL BACK
- SIL RING
- SIL SPOT

LED Drivers
- LD2

CONNECTIONS

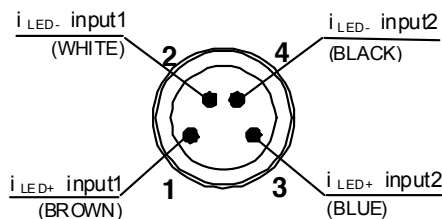**SIL LINE/AREA/SPOT/BACK**

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
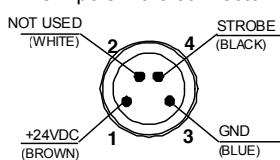

- 1 = BROWN = i_{LED+} input1
- 2 = WHITE = i_{LED-} input1
- 3 = BLUE = i_{LED+} input2
- 4 = BLACK = i_{LED-} input2
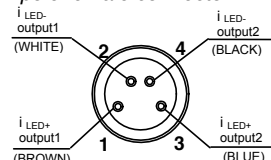
LED DRIVER LD2

INPUT
M8 4 pole male connector

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

OUTPUT
M8 4 pole female connector

- 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

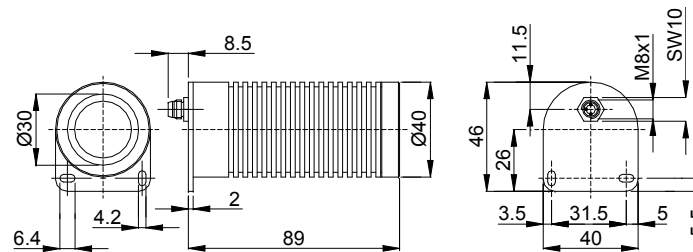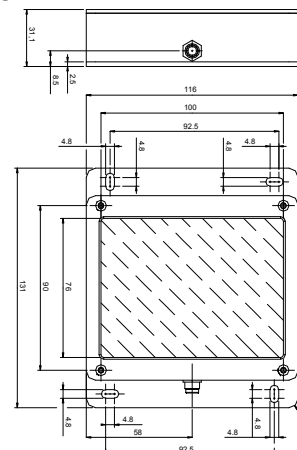*consider 30mA of extra current at powering
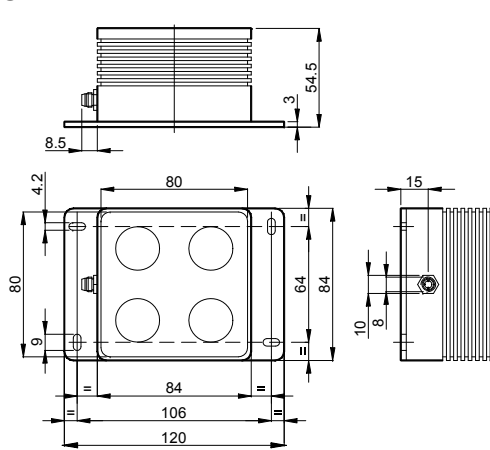

DIMENSIONS

SIL LINE
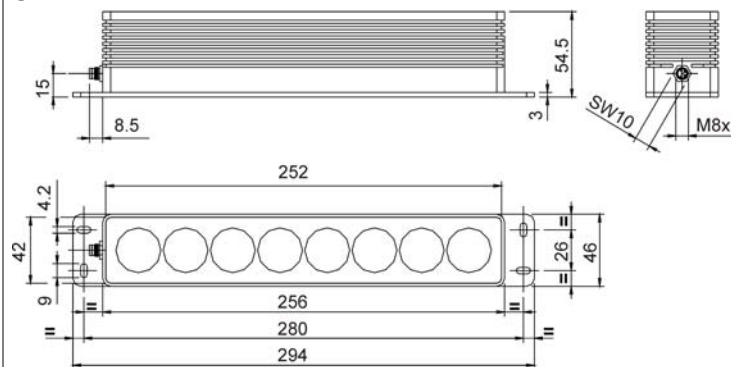
SIL RING
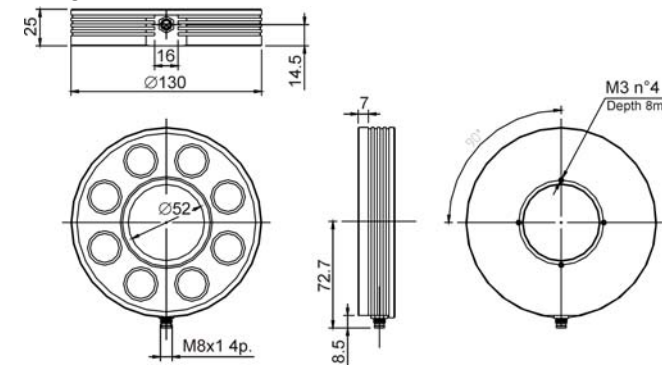
SIL SPOT

SIL BACK

SIL AREA

LD2

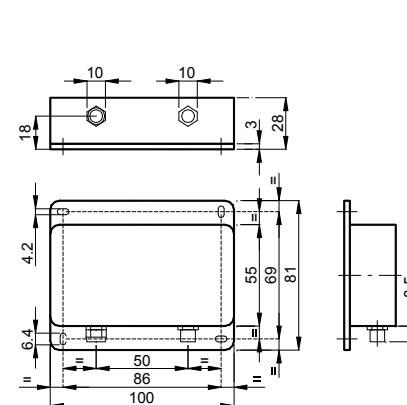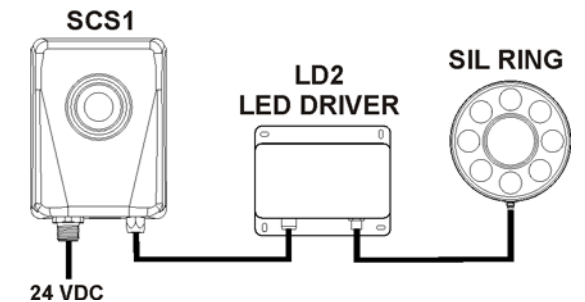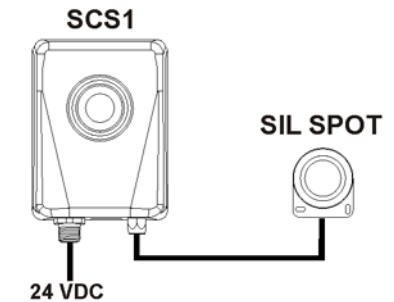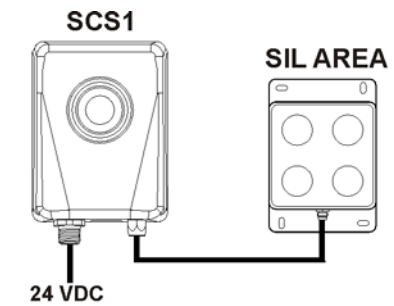## APPLICATION NOTE

Some examples of possible use of SIL illuminators connected to Datalogic'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.

CE

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