



## S65-V

956251100

### S65-PA-5-V19-PPP

ADVANCED COLOR AND CONTRAST SENSORS IN COMPACT CASE

## OVERVIEW

#### Color S65-V:

- 3 independent NPN or PNP outputs and RS 485 serial interface
- 3 channel color sensor with 10 tolerance levels
- Wide spectrum white light LED emission and RGB photo-receiver
- 2 push button setting with 4 digit display indicator

#### Contrast S65-W:

- High 12 bit resolution and 30 kHz switching frequency
- PNP or NPN output and RS 485 serial interface

## TECHNICAL FEATURES

#### Detection properties

Nominal sensing distance	45mm
Spot dimension	Ø 4 mm
Sensitivity adjustment	Teach-in

#### Application

Function Principle	Color detection
--------------------	-----------------

Description	Compact square case
Optic position	Radial 90°
Functions	Color detection

#### Outputs

Output type	PNP L/D selectable
Output Function	L/D selectable
Switching frequency	100 Hz (norm) and 500 Hz (fast)
Response time	1

#### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 60mA
Load current	≤100mA
Output voltage drop	≤ 2VDC
LED indicators	Yellow (output state) green 4-digit display, 3 OUTPUT STATUS LEDs
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED white
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes

Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
-----------------------	---

Contact resistance	500 Vac 1 min., between electronics and housing
--------------------	---

#### Mechanical data

Dimensions	25x50x50
------------	----------

Housing Material	Plastic - ABS / PMMA
------------------	----------------------

Connections	M12 plug
-------------	----------

Active Head Material	PMMA
----------------------	------

Storage temperature	- 20°C...+70°C
---------------------	----------------

Material	
----------	--

Diameter/Dimension	Cubic
--------------------	-------

#### Test/Approvals

Approvals	CE cULus
-----------	----------

Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
-----------------------	--

#### Generical Data

Dimensions	25x50x50
------------	----------

Operating Temperature	- 10°C...+ 55°C
-----------------------	-----------------

Mechanical Protection	IP67
-----------------------	------

**Datasensing  
S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

**date of  
printing**  
19/04/2026  
23:25:25