DATALOGIC

S65-W SERIES

The **S65-W** series offers, in a sturdy standard compact 50x50 mm ABS housing with IP67 mechanical protection, an advanced contrast sensor for the detection of register marks and other neutral or coloured targets.

The control panel presents three pushbuttons for easy and immediate setting and a 4-digit display that indicates the configuration parameters and the level of received signal without the need of connecting external devices.

Different operating modes, automatic EASYtouch[™] and fine, manual and dynamic, allow extremely easy and precise object detection.

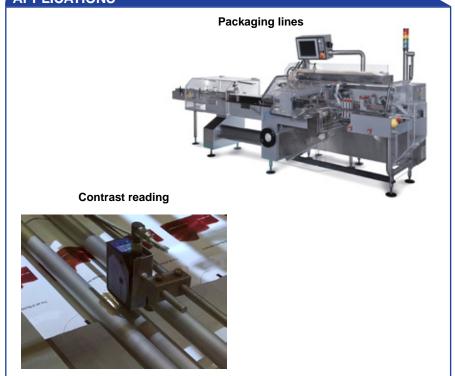
Models with only one NPN or PNP switching output are available, or with RS485 serial interface for data transmission as well as an analogue monitoring output proportional to the received light intensity. Electric connection is made by means of a standard 5 or 8-pole connector according to the model.

HIGHLIGHTS

- High 12 bit resolution and 30 kHz switching speed
- 3 push-button setting with 4-digit display indication
- All setting modes: automatic, manual or dynamic
- PNP or NPN output with RS485 serial interface for data transmission



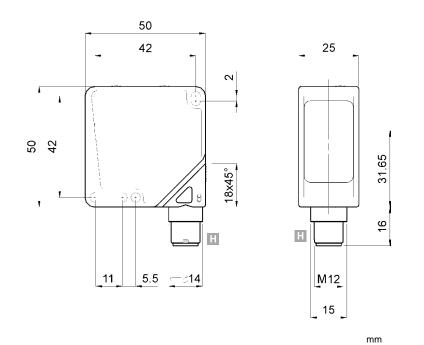
APPLICATIONS



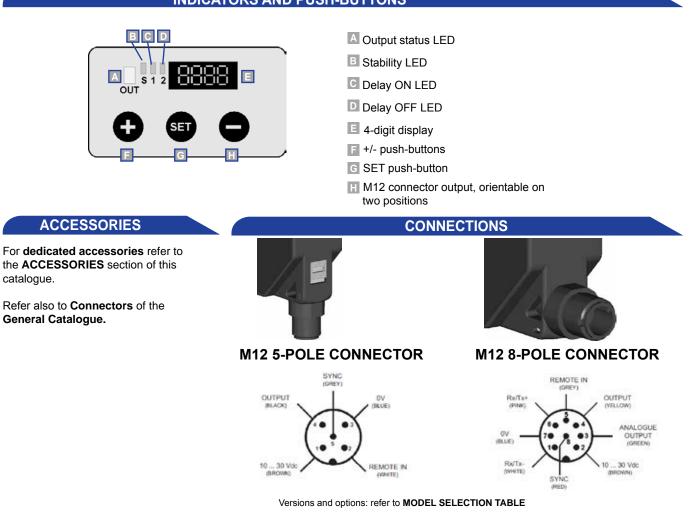
DIMENSIONS

Sensor setting can be made in four different modes; **EASYtouch™** with one SET push-button pressure for a quicker setting, **fine** pressing twice the SET push-button for better precision, **manual** for rapid setting correction using the +/push-buttons and **dynamic** for the detection of moving targets.

The timing function allows to set a delay of the output activation or deactivation, to avoid the detection of temporarily rapid changes, improve interfacing with slower systems or synchronise activator activation without needing external timers.



INDICATORS AND PUSH-BUTTONS



Phone: 800.894.0412 - Fax: 888.723.4773 - Web: www.ctiautomation.net - Email: info@ctiautomation.net

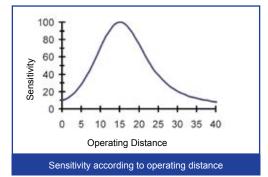
DATALOGIC

TECHNICAL DATA					
TECHNICAL NOTE ¹ Limit values ² Average life of 100.000 h with TA = +25 °C ³ Is activated at powering with remote input connected to +Vdc for at least 1 sec. ⁴ Connector can be blocked on two positions ⁵ A - reverse polarity protection B - overload and short-circuit protection			S65-PA-5-W09-NHZ	S65-PA-5-W09-PH	S65-PA-5-W09-PHZ
Operating distance:	Operating distance: 15 mm		•	•	•
Depth of field:	± 2 mm		•	•	•
Power supply:	10 30 Vdc ¹	•	•	•	•
Ripple:	≤ 2 Vpp	•	•	•	•
Consumption:	50 mA max. at 24 Vdc	•	•	•	•
Light emission:	white LED 400 - 700 nm ²	•	•	•	•
Spot dimension:	3x1 mm rectangular at 19 mm	•	•	•	•
Setting:	+ push-button	•	•	•	•
	- push-button	•	•	•	•
	SET push-button	•	•	•	•
Digital resolution:	12 bit (4096 points)	•	•	•	•
Indicators:	4-digit display	•	•	•	•
	yellow active OUTPUT LED	•	•	•	•
	green ON/OFF stabile OUTPUT LED	•	•	•	•
	green active DELAY ON LED	•	•	•	•
	green active DELAY OFF LED	•	•	•	•
Output type:	PNP - NO			•	•
	NPN - NO	•	•		
Output current:	≤100 mA	•	•	•	•
Saturation voltage:	≤2 V	•	•	•	•
Response time:	16 µs	•	•	•	•
Switching frequency:	30 KHz	•	•	•	•
Timing function:	1 100 ms setting	•	•	•	•
Auxiliary functions:	RS485 serial interface		•		•
	keyboard lock ³	•	•	•	•
	external synchronism	•	•	•	•
Connection:	M12 5-pole connector ⁴	•		•	
	M12 8-pole connector ⁴		•	-	•
Electrical protection:	class 2	•	•	•	•
Mechanical protection:	IP67	•	•	•	•
Protection devices:	A, B ⁵	•	•	•	•
	ABS	•	•	•	•
Housing material:		•	•	•	•
Lens material:	glass	•	•	•	•
Weight:	60 g max.	_			
Operating temperature:	-10 +55°C	•	•	•	•
Storage temperature:	-20 +70°C		•	•	•
Reference standard:	EN 60947-5-2	•	•	•	•

SELECTION TABLE

contrast sensors			
S65-PA-5-W09-NH	954201000	NPN	
S65-PA-5-W09-NHZ	954201010	NPN	RS485
S65-PA-5-W09-PH	954201020	PNP	
S65-PA-5-W09-PHZ	954201030	PNP	RS485

DETECTION DIAGRAMS





MODEL SELECTION AND ORDER INFORMATION

MODEL	CONNECTION	OUTPUT	SERIAL INTERFACE	ORDER N°
S65-PA-5-W09-NH	M12 5-pole connector	NPN	No	954201000
S65-PA-5-W09-NHZ	M12 8-pole connector	NPN	RS485	954201010
S65-PA-5-W09-PH	M12 5-pole connector	PNP	No	954201020
S65-PA-5-W09-PHZ	M12 8-pole connector	PNP	RS485	954201030

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
ST-5020	50 x 27 x 20 mm fixing bracket	95ACC5330
ST-5021	20 x 40 x 28 mm fixing bracket	95ACC5340
CS-A1-03-G-03	M12 5-pole conn. with 3 m unshielded cable	95ACC2110
CS-A1-03-G-05	M12 5-pole conn. with 5 m unshielded cable	95ACC2120
CS-A1-03-G-10	M12 5-pole conn. with 10 m unshielded cable	95ACC2140
CS-A1-06-B-03	M12 8-pole conn. with 3 m unshielded cable	95ACC2230
CS-A1-06-B-05	M12 8-pole conn. with 5 m unshielded cable	95ACC2240
CS-A1-06-B-10	M12 8-pole conn. with 10 m unshielded cable	95ACC2250



The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.