



S50-PA/MA...W

Contrast sensor

INSTRUCTION MANUAL

CONTROLS

OUTPUT LED

The yellow LED on indicates that the N.O. (normally open) output status is closed.

READY/ERROR LED (bicolour)

When the bicoloured LED is continuously green, the sensor is operating in a normal condition and it is ready to function correctly (stability condition).

The red and green blinking of the LED indicates a wrong sensor setting. Please refer to the "SETTING" paragraph to get the correct setting procedure.

SET PUSHBUTTON

A long pressure on the pushbutton activates the self-setting procedure.

INSTALLATION

S50-PA...W: The sensor can be fixed by means of the M18x1 threaded body through a Ø 18 mm hole, using the specific washer and the enclosed 24 mm nuts (maximum torque of tightening 1.5 Nm). Alternatively, the sensor can be mounted through the two housing's holes using two screws (M3x22 or longer) and nuts. Amongst the various possible solutions, we suggest to choose the combination that offers the best visibility of the signalling Leads and the easiest access to the SET pushbutton.

22 mm nuts, h=8 mm, (2 Nm maximum tightening torque) are available to guarantee an improved torque.

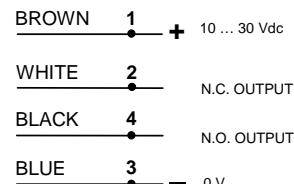
S50-MA...W: The sensor can be fixed by means of the M18x1 threaded body through a Ø 18 mm hole, using the specific washer and the two CH.24 nuts enclosed (22 Nm maximum tightening torque).

For both plastic version and metallic version are available various orientable fixing brackets to ease the sensor positioning (please refer to the accessories listed in the general catalogue).

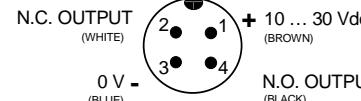
The operating distance is measured from the front surface of the sensor lens.

CONNECTIONS

The connections are compliant to the EN 60947-5-2 standard.



M12 CONNECTOR



SETTING

EASY TOUCH™

The sensor uses the patent-covered EASY TOUCH™ technology that allows a rapid and safe self-setting of the product. Two different setting possibilities are available:

- **EASY TOUCH™**; a long pressure of the SET pushbutton allows self-setting.
- **FINE DETECTION**; to be used only in particularly critical conditions, this setting procedure is used only when the EASY TOUCH™ is not sufficient.

Setting of S50-PA/MA...W

To achieve a correct sensor functioning, the coloured mark or object to be detected has to be placed at the right reading distance.

- **EASY TOUCH™ (standard detection in the DARK mode)**

The EASY TOUCH™ technology allows the functioning in the DARK mode (mark presents a lower light intensity respect to the background). The mark to detect has to be placed correctly at the right reading distance within the sensor spot.

Press the SET pushbutton until the READY/ERROR LED turns OFF. Release the SET pushbutton and wait for the READY/ERROR LED to turn green.

The sensor is now ready to detect the pre-set coloured mark or object (output LED turns ON when the N.O. output is closed).

- **Fine detection (DARK or LIGHT mode)**

This mode offers an improved detection precision.

The sensor can function either in the DARK operating or in the LIGHT operating mode (light-coloured mark ON dark background). The operating mode is selected automatically by the sensor.

The mark to detect has to be placed correctly at the right reading distance within the sensor spot.

Press the SET pushbutton. The READY/ERROR LED turns OFF. Keep the SET pushbutton pressed until the READY/ERROR LED blinks green. Place the background under the sensor spot.

Press the SET pushbutton again until the READY/ERROR LED turns OFF.

The sensor is now ready to detect, with a very high precision, the pre-set coloured mark (output LED turns ON, READY/ERROR LED turns green).

The output LED is ON and the N.O. output is closed, when the sensor is positioned on the pre-set coloured mark.

NOTE

If a setting error will occur please repeat again the EASY TOUCH setting procedure, in order to be sure to restart the setting procedure correctly.

DECLARATION OF CONFORMITY

We DATALOGIC AUTOMATION declare under our sole responsibility that these products are conform to the 2004/108/CE and successive amendments.



WARRANTY

DATALOGIC AUTOMATION warrants its products to be free from defects.

DATALOGIC AUTOMATION 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 DATALOGIC AUTOMATION products.

DATACOM AUTOMATION

Datalogic AUTOMATION cares for the environment: 100% recycled paper. Datalogic AUTOMATION reserves the right to make modifications and improvements without prior notification.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U.