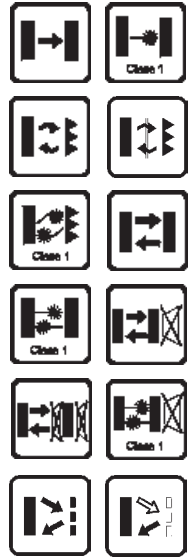


COMPACT METAL PHOTOELECTRIC SENSORS



- **Sturdy metal housing in a compact 41x49x15 mm format**
- **Complete range of universal, application and laser optic functions**
- **Trimmer or push-button setting with EASYtouch™ function**
- **NPN and PNP versions standard M12 rotatable connector**

S90 SERIES

The **S90** series, in a compact 41x49x15 mm metal housing, offers all the application and universal optic functions also with safety class 1 laser emission.

The series includes polarised retroreflex models with coaxial optics for the detection of reflective and transparent objects, background and foreground suppression versions, contrast sensor with white light emission for colour mark detection, ultraviolet sensor for luminescent object detection. Basic models are available with class 1 laser emission for high-resolution detection.

The **S90** models with universal proximity, retroreflex and through beam optic functions have trimmer sensitivity adjustment. More sophisticated models are microprocessor controlled and offer the patent-covered *EASYtouch™* setting procedure for rapid and precise automatic setting of the switching threshold, with remote control, keyboard lock and output delay activation functions.

NPN or PNP versions are available with standard M12 connector that can be rotated in 4 different positions.

S90 COMPACT METAL SENSORS

The polarised retroreflex model and the version for transparent object detection are available also with coaxial optics guaranteeing a more accurate axis detection as well as the elimination of the blank zone near to the sensor.

The coaxial optics is also present in the contrast sensor with white light LED emission and in the luminescence sensor with ultraviolet light LED emission, improving the precision and depth of field.

The biaxial optics which is present in the background suppression models, including laser versions, allows the triangulation for a precise detection.



BIAXIAL OPTICS



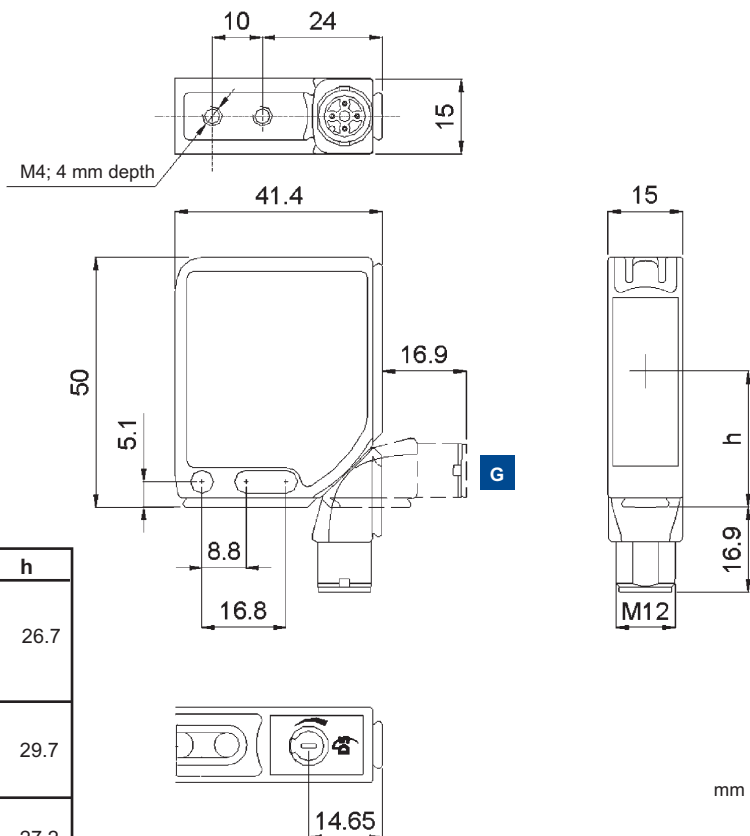
COAXIAL OPTICS

ACCESSORIES

For dedicated accessories refer to the **ACCESSORIES** section of this catalogue.

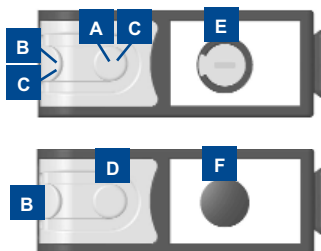
Refer also to **Connectors (A.03)** and **Fixing Brackets (A.04)** of the **General Catalogue**.

DIMENSIONS



Version	h
B01 C01 C11 F01 G00	26.7
B51 T51 U W	29.7
M N ML	27.2

INDICATORS AND SETTINGS



- A** STABILITY LED
- B** Output status LED
- C** POWER ON LED
- D** READY/ERROR LED
- E** Trimmer
- F** SET push-button *
- G** M12 connector output, orientable in 4 positions

* Teach-in push-button for setting.
EASytouch™ provides two setting modes: standard or fine.
Please refer to instructions manual for operating details.

CONNECTIONS



S90...B01 / B51 / C01 / C11 / F01 / T51
S90-ML ... B01 / C01 / F01



S90 ... M / N / U / W / S90-ML ... M



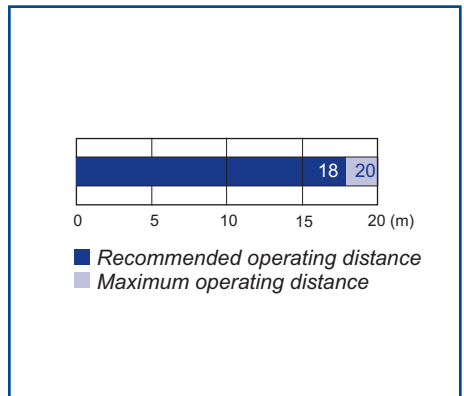
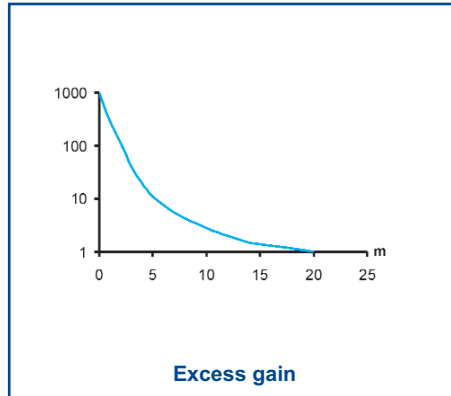
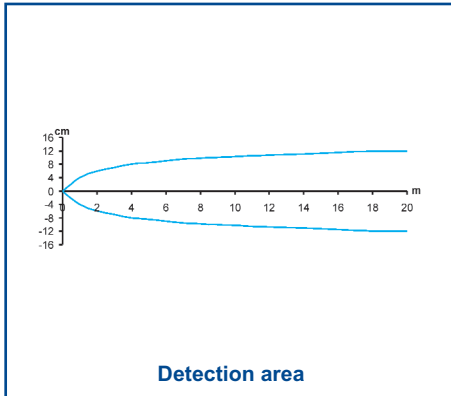
S90 ... G00



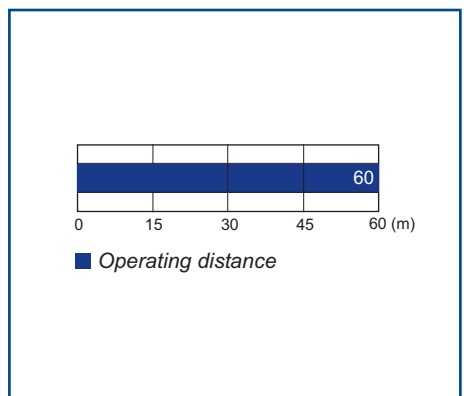
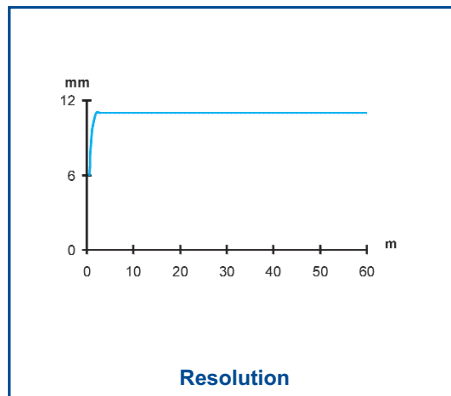
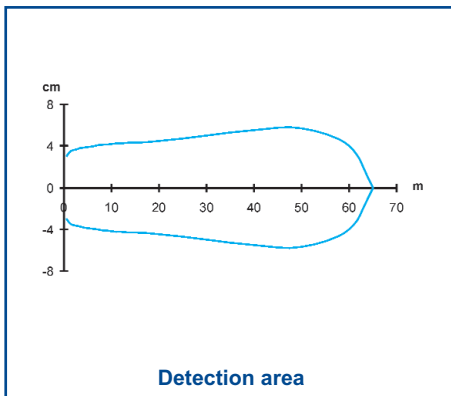
S90-PL ... G00

Versions and options: refer to **MODEL SELECTION TABLE**

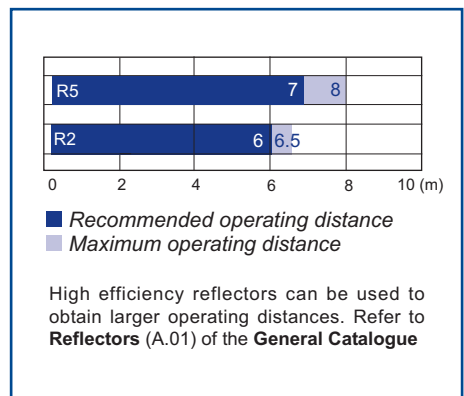
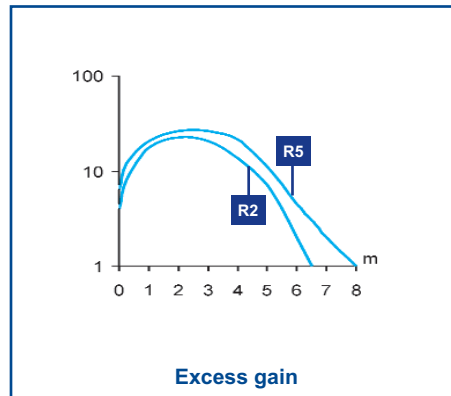
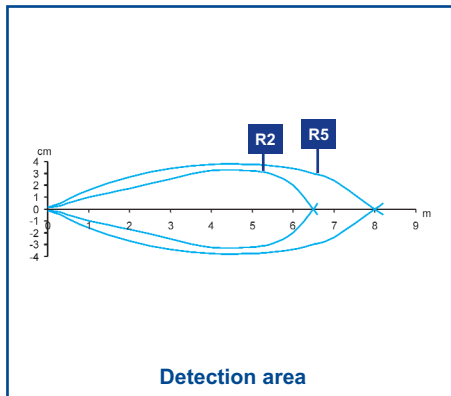
DETECTION DIAGRAMS



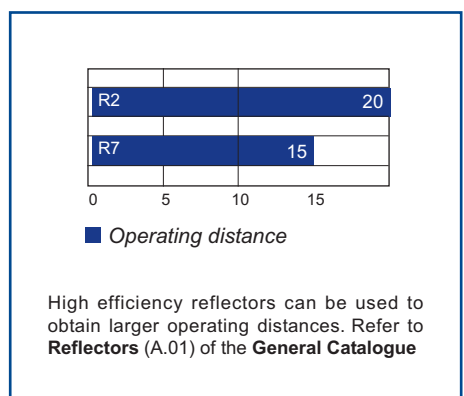
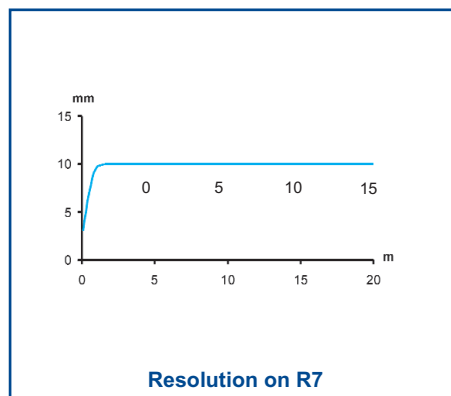
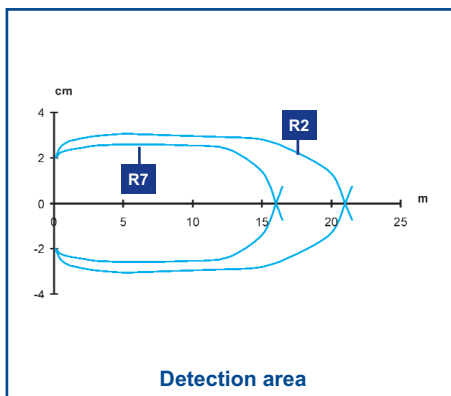
F01, G00 models



L-F01, G00 models

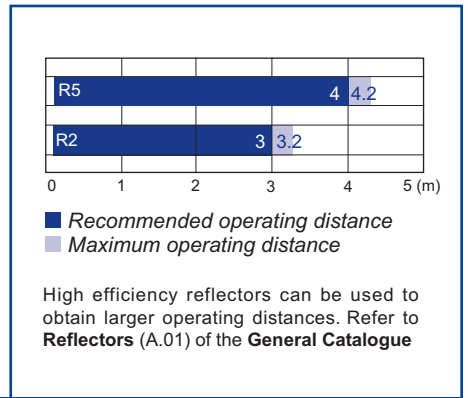
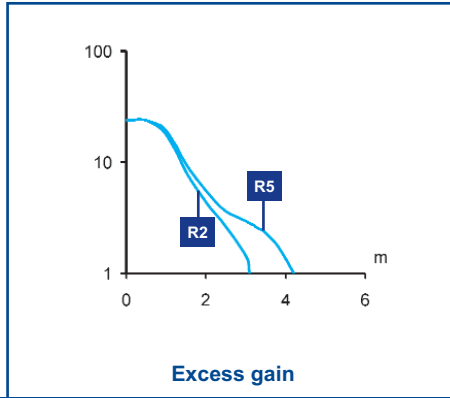
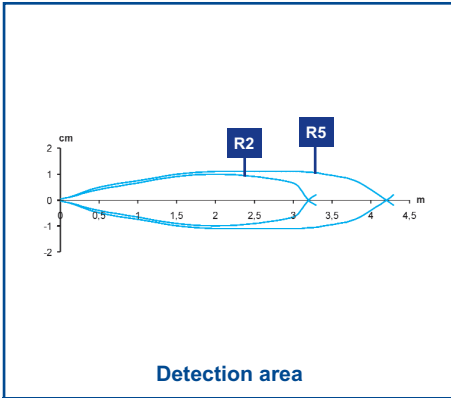


B01 models

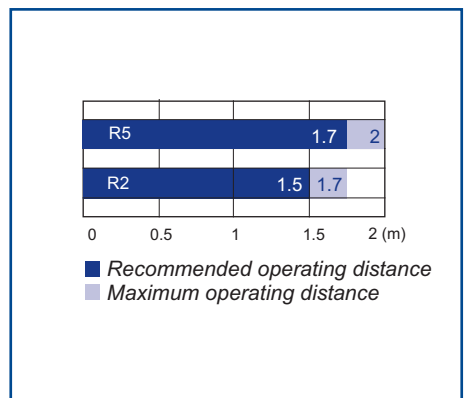
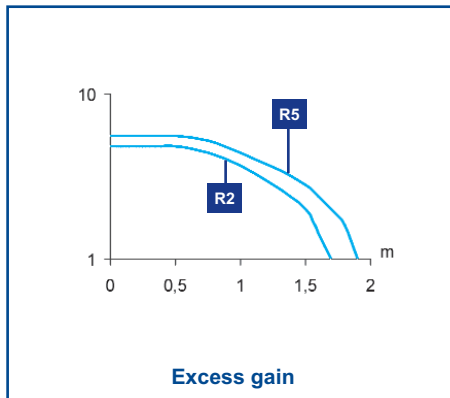
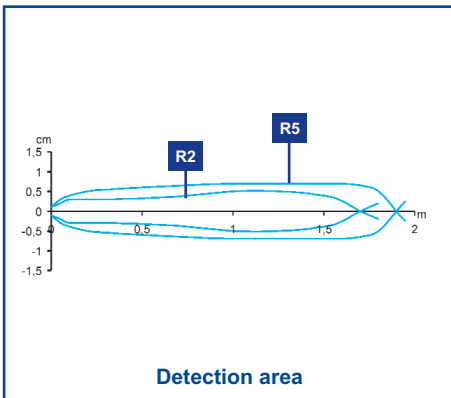


L-B01 models

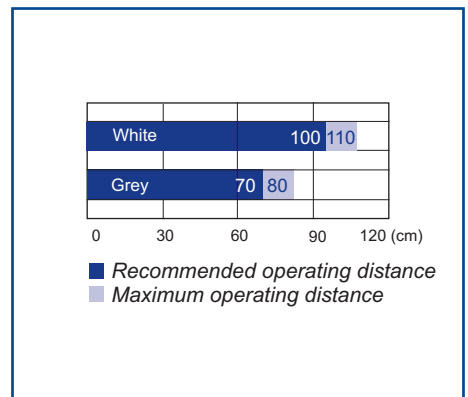
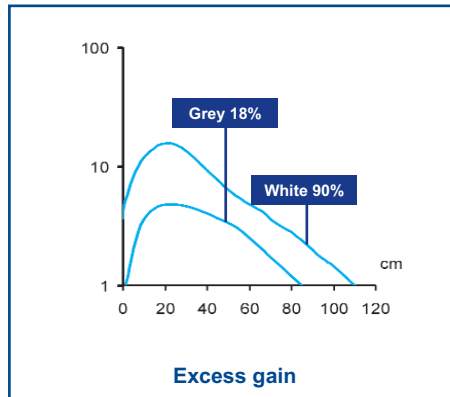
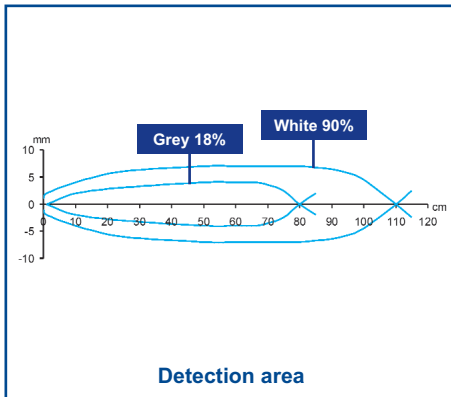
DETECTION DIAGRAMS



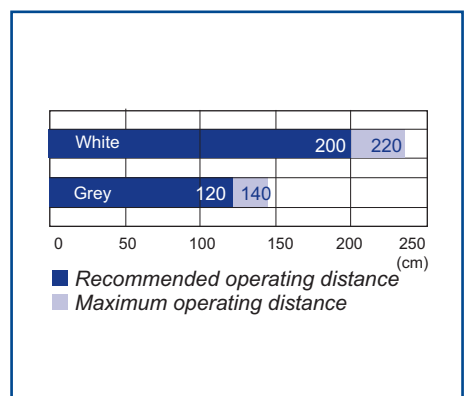
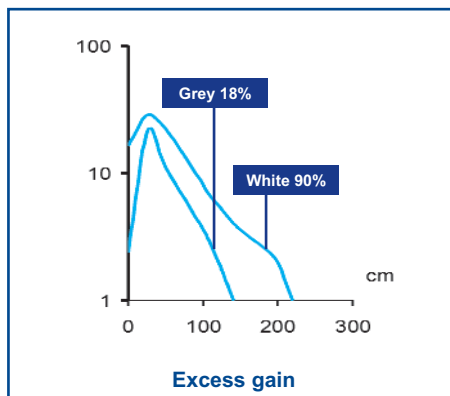
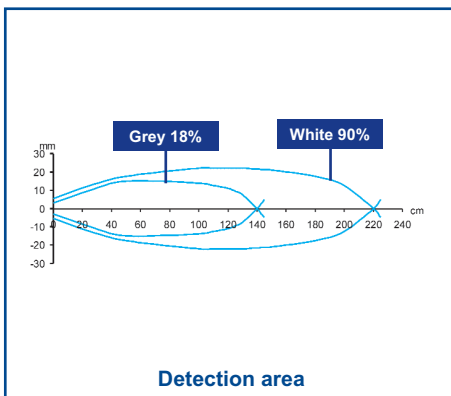
B51 models



T51 models

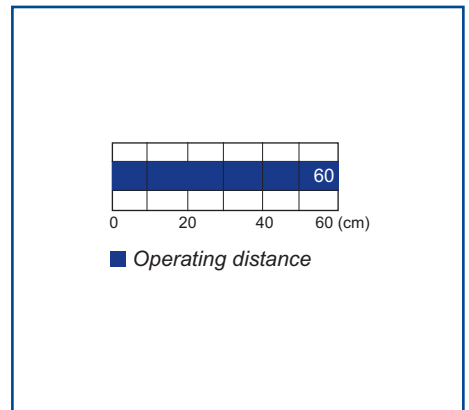
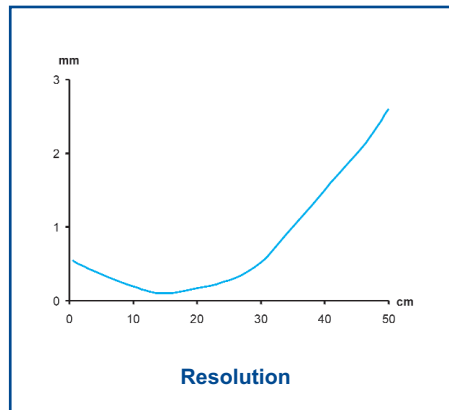
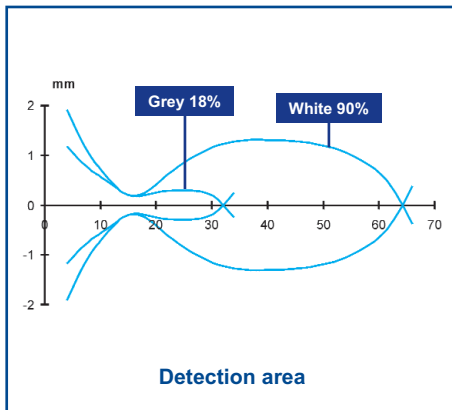


C01 models

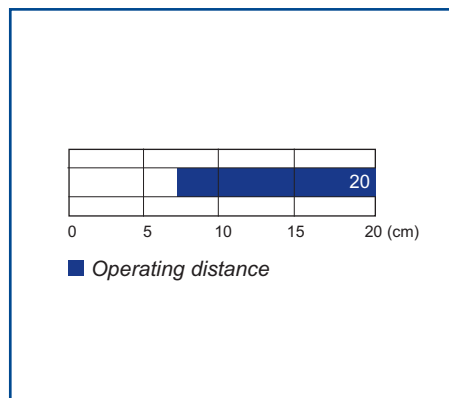
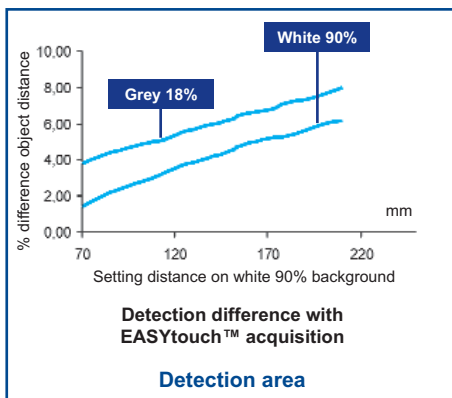


C11 models

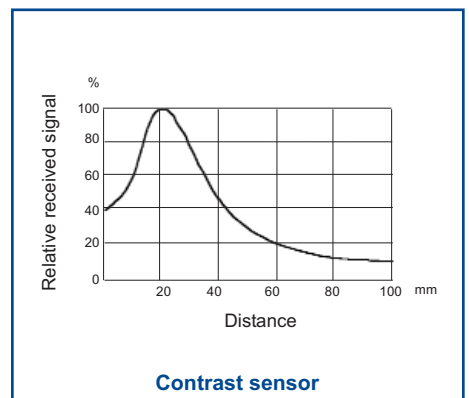
DETECTION DIAGRAMS



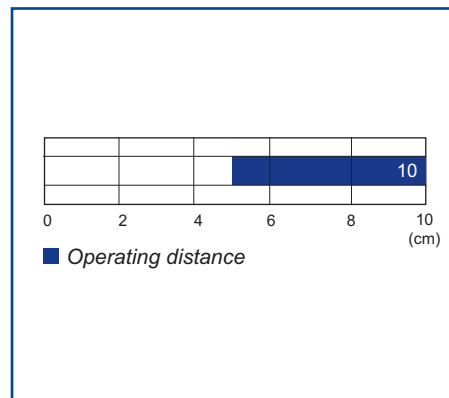
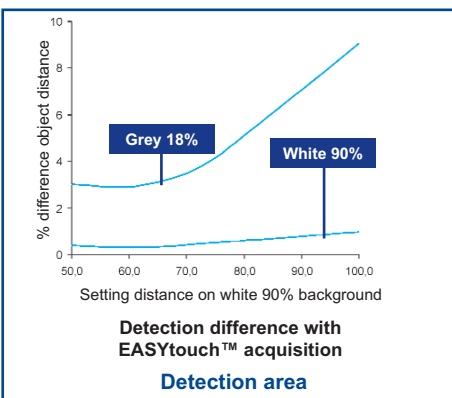
L-C01 models



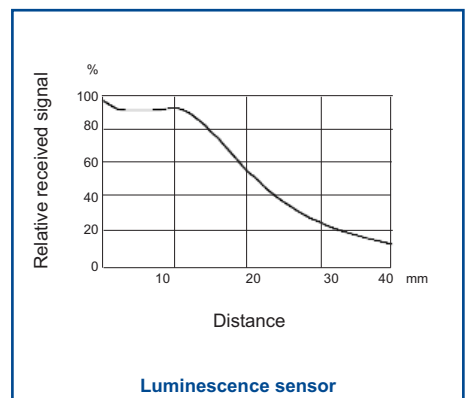
M08 models



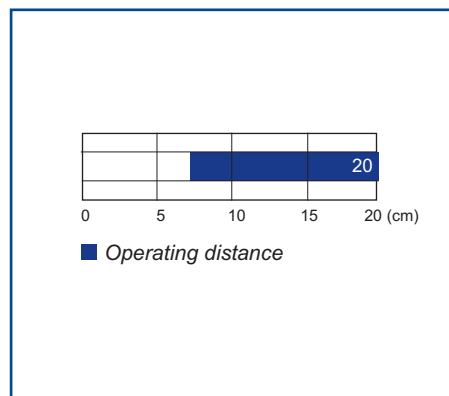
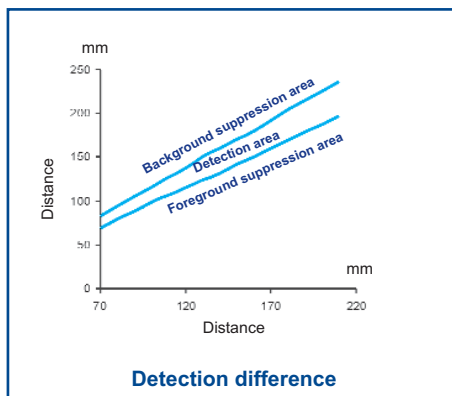
W models



L-M08 models



U models



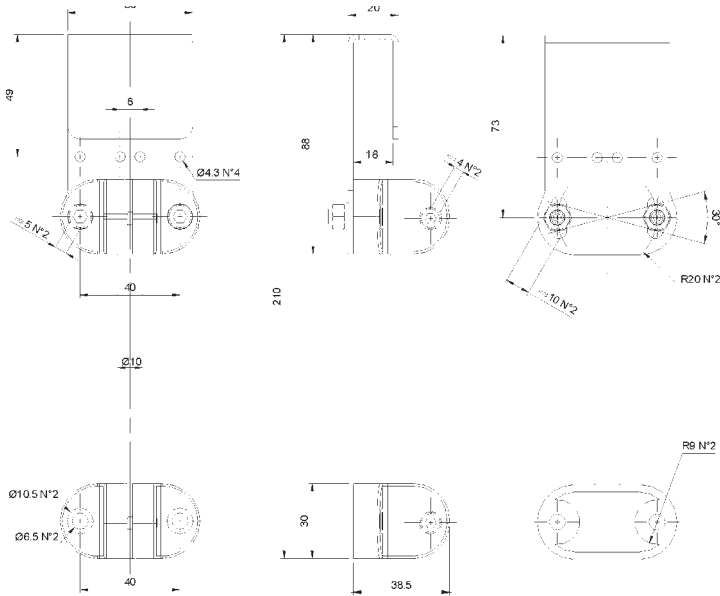
N03 models

ACCESSORY SELECTION AND ORDER INFORMATION

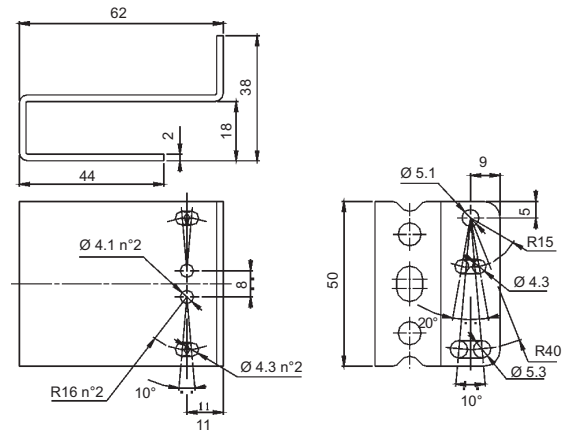
MODEL	DESCRIPTION	ORDER N°
ST-5018	protection bracket	95ACC5310
ST-5019	protection bracket	95ACC5320
ST-5020	fixing bracket	95ACC5330
ST-5021	fixing bracket	95ACC5340
ST-5041	short dove-tail fixing bracket	95ACC2300
ST-5042	long dove-tail fixing bracket	95ACC2310
JOINT-60	protection bracket with jointed support	95ACC5350

Refer also to Accessories for Sensors

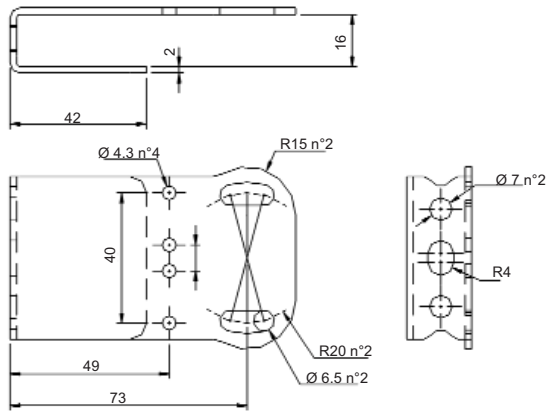
JOINT-60



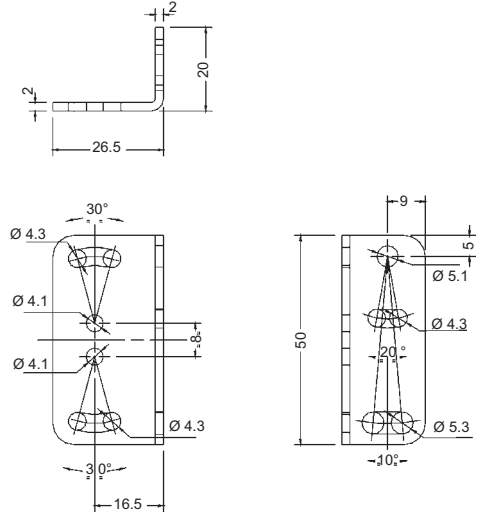
ST-5018



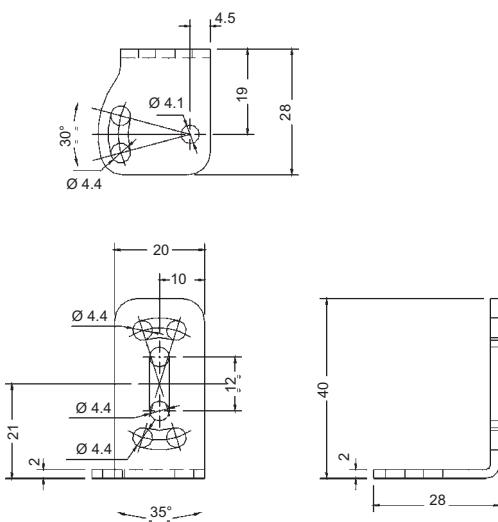
ST-5019



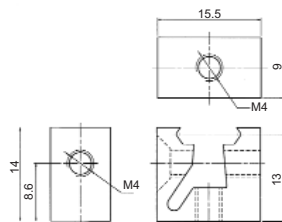
ST-5020



ST-5021



ST-5041



ST-5042

