
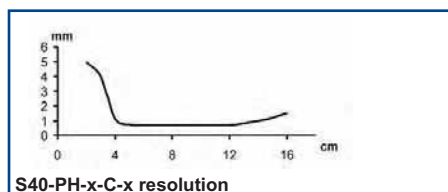
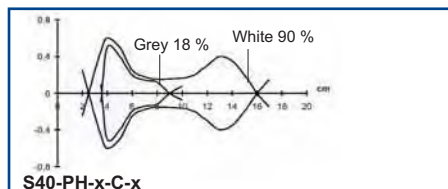
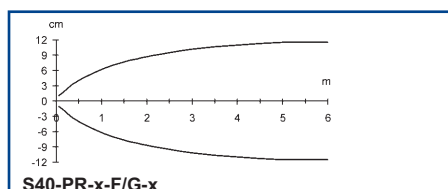
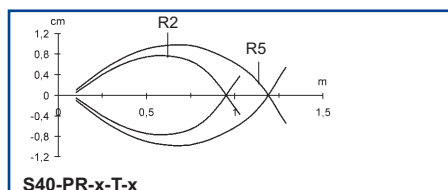
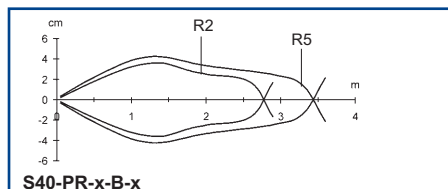
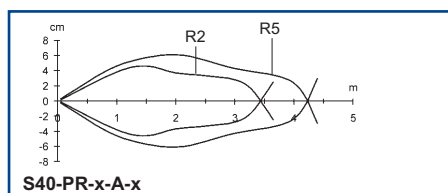
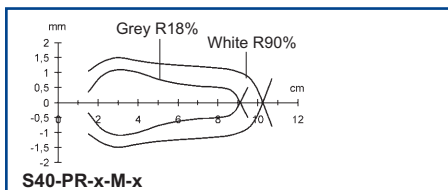
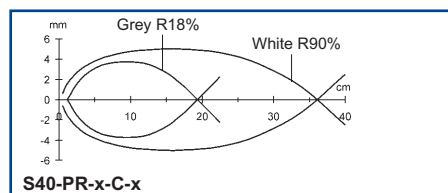


TECHNICAL DATA

Power supply:	10 ... 30 Vdc, reverse polarity protection
Consumption:	35 mA max.
Light emission:	red LED 660 nm, red laser 650 nm
Diffuse proximity operating distance:	0.5 ... 30 cm
Laser diffuse proximity op. distance:	4 ... 15 cm
Laser proximity resolution:	0.2 mm (on focus point)
Background suppression op. distance:	15 ... 100 mm
Laser background suppr. op. distance:	20 ... 60 mm
Laser background suppr. resolution:	0.2 mm (on focus point)
Background suppr. white/grey diff.:	7 %
Retroreflex operating distance:	0.1 ... 3 m (on R2)
Polarised retroreflex operating distance: ..	0.1 ... 2.5 m (on R2)
Laser polarised retroreflex op. distance: ..	0.1 ... 6 m (on R2)
Laser retroreflex resolution:	1 mm (on focus point)
Retroreflex transparents op. distance:	0.1 ... 0.7 m (on R2)
Through beam operating distance:	0.1 ... 6 m
Setting:	SET push-button
	Remote by cable
Indicators:	yellow OUTPUT LED
	green POWER LED (G vers.)
	green READY/ERROR LED
Output type:	NPN or PNP, Rpull-down/up 22 k Ω
Saturation voltage:	2.4 V max.
Output current:	100 mA max, short-circuit protection
Response time:	0.5 ms
	125 μ s (laser B03 and C03 versions)
Switching frequency:	1 kHz max.
	4 kHz (laser B03 and C03 versions)
Operating mode:	dark/light programmable
Connection:	4-pole M8 connector
	2 m \varnothing 3.5 mm cable
Laser safety class:	class II
Electrical protection:	class 2
Mechanical protection:	IP67
Housing material:	ABS
Lens material:	PMMA plastic
Weight:	10 g max. (connector vers.)
	40 g max. (cable vers.)
Operating temperature:	-20 ... +60 $^{\circ}$ C
Storage temperature:	-20 ... +80 $^{\circ}$ C
Reference standard:	EN 60947-5-2, EN 60825-1
Certifications:	CE  US LISTED

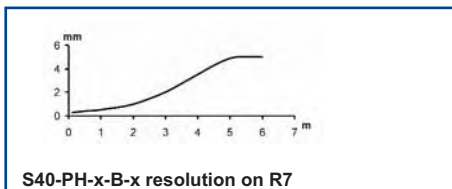
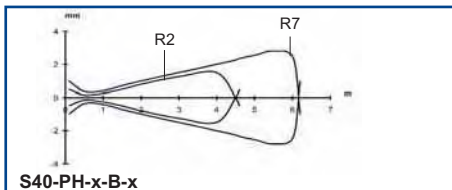
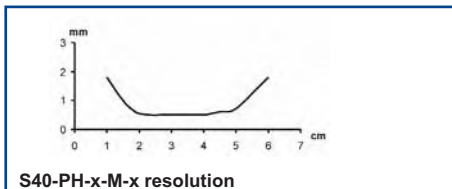
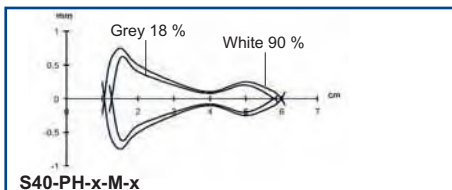
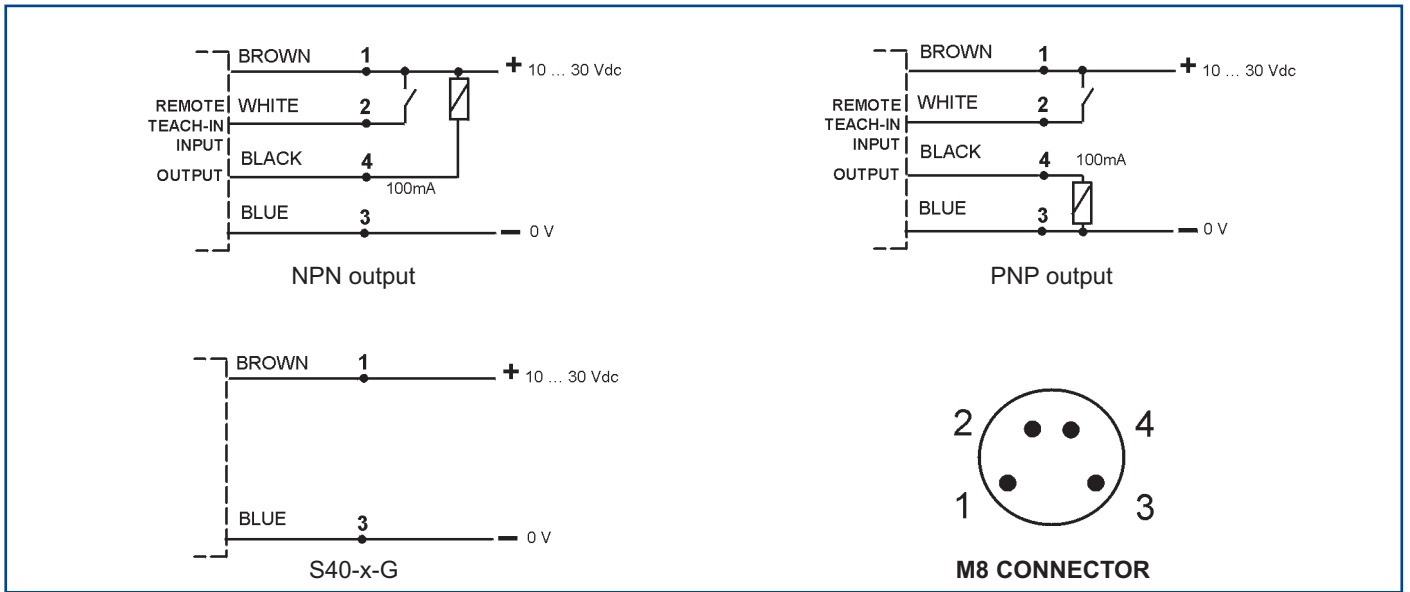
The operating distances indicate the detection distance with excess gain 2.

DETECTION DIAGRAMS

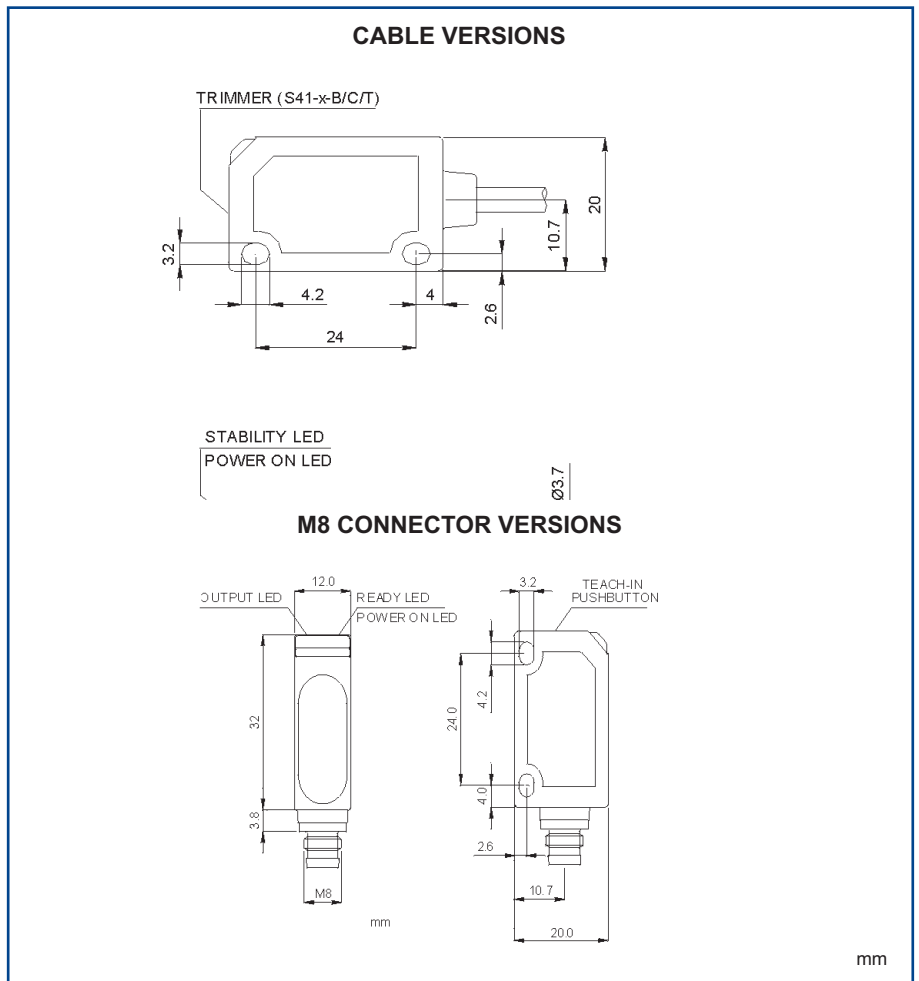


The detection diagrams indicate the typical operating distance with excess gain 1.

CONNECTIONS



DIMENSIONS



MODEL SELECTION AND ORDER INFORMATION

MODEL	OPTIC FUNCTION	CONNECTION	OUTPUT	CODE N°
S40-PR-2-A03-NH	retroreflex	2 m cable	NPN	950401390
S40-PR-2-A03-PH	retroreflex	2 m cable	PNP	950401330
S40-PR-2-B03-NH	polarised retroreflex	2 m cable	NPN	950401360
S40-PR-2-B03-PH	polarised retroreflex	2 m cable	PNP	950401300
S40-PR-2-C03-NH	diffuse proximity	2 m cable	NPN	950401370
S40-PR-2-C03-PH	diffuse proximity	2 m cable	PNP	950401310
S40-PR-2-FG3-NH	through beam	2 m cable	NPN	950401400
S40-PR-2-FG3-PH	through beam	2 m cable	PNP	950401340
S40-PR-2-M03-NH	background suppression	2 m cable	NPN	950401380
S40-PR-2-M03-PH	background suppression	2 m cable	PNP	950401320
S40-PR-2-T03-NH	retroreflex for transparents	2 m cable	NPN	950401410
S40-PR-2-T03-PH	retroreflex for transparents	2 m cable	PNP	950401350
S40-PR-5-A03-NH	retroreflex	M8 connector	NPN	950401510
S40-PR-5-A03-PH	retroreflex	M8 connector	PNP	950401450
S40-PR-5-B03-NH	polarised retroreflex	M8 connector	NPN	950401480
S40-PR-5-B03-PH	polarised retroreflex	M8 connector	PNP	950401420
S40-PR-5-C03-NH	diffuse proximity	M8 connector	NPN	950401490
S40-PR-5-C03-PH	diffuse proximity	M8 connector	PNP	950401430
S40-PR-5-FG3-NH	through beam	M8 connector	NPN	950401520
S40-PR-5-FG3-PH	through beam	M8 connector	PNP	950401460
S40-PR-5-M03-NH	background suppression	M8 connector	NPN	950401500
S40-PR-5-M03-PH	background suppression	M8 connector	PNP	950401440
S40-PR-5-T03-NH	retroreflex for transparents	M8 connector	NPN	950401530
S40-PR-5-T03-PH	retroreflex for transparents	M8 connector	PNP	950401470
S40-PH-5-B03-NH	laser polarised retroreflex	M8 connector	NPN	950401240
S40-PH-5-B03-PH	laser polarised retroreflex	M8 connector	PNP	950401250
S40-PH-5-C03-NH	laser diffuse proximity	M8 connector	NPN	950401260
S40-PH-5-C03-PH	laser diffuse proximity	M8 connector	PNP	950401270
S40-PH-5-M03-NH	laser background suppression	M8 connector	NPN	950401280
S40-PH-5-M03-PH	laser background suppression	M8 connector	PNP	950401290

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	CODE N°
ST-505	1 pc fixing bracket	95ACC1300

Please refer also to **Sensor Accessories**