用用於過去開 **S85**

LASER distance sensor for precise measurement up to 20 m with a millimeter of resolution and repeatability through the Time of Flight technology

- Time of Flight technology
- Class 2 visible red LASER for an easy alignment with the target ÷.
- Measuring range up to 10m or 20m in the advanced model
- 1 mm resolution, 7 mm accuracy, 1 mm repeatability
- 4-20 mA or 0-10 V scalable analog output and 2 digital outputs ÷.
- RS485 serial interface in the advanced model
- Standard M12 connector
- IP67 Industrial metal housing ÷.

APPLICATIONS

- -Automated warehousing
- -Processing and Packaging machinery
- -Industrial vehicles
- -Automotive

585			
Distance sensor (90% White target)		0,220 m (S85Y13)	
Distance sensor (50% white target)		0,210 m (S85Y03)	
Repeatability		12 mm	
Accuracy		710 mm	
Resolution		1 mm	
Light emission		red LASER (class 2)	
Response time		30 ms (S85Y03)	
		1530 ms (S85Y13)	
Serial interface		RS485 (S85Y13)	
Cutting.		Display (S85Y13)	
Setting		push-buttons (S85Y03)	
Power supply	Vdc	24 Vdc +/- 20%	
	PNP	•	
Output	NPN	•	
Output	Push pull	•	
	other	Analog output: 420 mA or 010 V	
Connection	connector	•	
Approximate dimensions (mm)		60x72x37	
Housing material		Zamak	
Mechanical protection		IP67	



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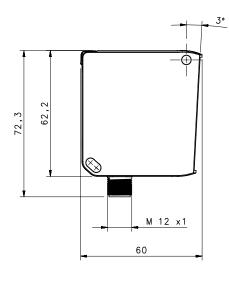


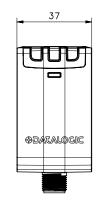


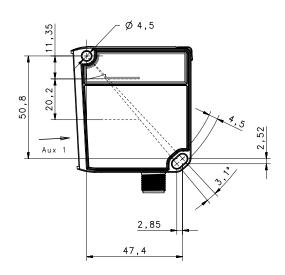
DATALOGIC

TECHNICAL DATA			
Power supply	24 Vdc ± 20%		
Consumption (output current excluded)	2,8 W max. (mod. S85Y03) 3 W max. (mod. S85Y13)		
Light emission	red Laser 658 nm		
Setting	push-buttons (mod. S85Y03) push-buttons and display (mod. S85Y13)		
Operating distance	90% white target 0,210 m (mod. S85Y03), 0,220 m (mod. S85Y13) 18% grey target 0,25 m (mod. S85Y03), 0,28 m (mod. S85Y13) 6% black target 0,23 m (mod. S85Y03), 0,25 m (mod. S85Y13)		
Indicators	yellow Q1 LED, Q2 LED green/red POWER/OUT OF RANGE LED 5-digit multi display (mod. S85Y13)		
Output	push pull/Q (mod. S85Y03) PNP, NPN, push pull, Q, Qneg (mod. S85Y13)		
Analog output	0-10 V (mod. S85Y03-00V) 4-20 mA (mod. S85Y03-00I) 0-10 V/4-20 mA (mod. S85Y13-00IVY)		
Response time	slow 45 ms (mod. S85Y13) medium 30 ms fast 15 ms (mod. S8513)		
Connection	M12 5-pole connector (mod. S85Y03), M12 8-pole connector (mod. S85Y13)		
Dielectric strength	500 Vac, 1 min between electronics and housing		
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing		
Mechanical protection	IP67		
Ambient light rejection	according to EN 60947-5-2, >40 Klux DC ambient light		
Vibrations	0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)		
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)		
Housing material	ZINC ALLOY ZAMA 13 EN-1774/PC LEXAN 121R display		
Lens material	PMMA		
Operating temperature	-15 50 °C		
Storage temperature	-25 70 °C		
Weight	250 g max.		

DIMENSIONS



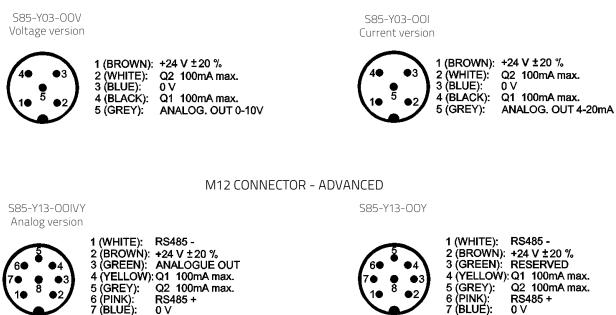




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CONNECTIONS

M12 CONNECTOR - STANDARD



INDICATORS AND SETTINGS

Without the procedure setting the sensor is configured to measure distances on a white target from a minimum value of 200 mm and a maximum of 20000 mm, with both switching point placed at 500 mm.

The parameters can be changed by the menu on the display pointing the LASER on the target in the different interested points.

INDICA	TORS	20000	
LED 1	Q1 (yellow)	NOTA THE MET	
LED 2	Q2 (yellow)	HOMANDER:	
LED 3	POWER ON (green), OUT OF RANGE (red)	123	
	Run/W.UP \rightarrow Run mode or W	arm-up mode	
	Q+Q \rightarrow Digital Output setting	\rightarrow PNP/NPN/Push-Pull	
DISPLAY	$I/V \rightarrow Analog Output Setting \rightarrow Ampere/Volt$		
	Lock Symbol \rightarrow Keylock or unlock		
	5-digit display \rightarrow Value corres	ponds to Distance in mm	

8 (RED):

MULTIFUNC.INPUT

Menu	Functions
OUT 1	Switching point1: Light/Dark; Switching point value; PNP, NPN, Push-pull; Alarm
OUT 2	Switching point 2: Light/Dark; Switching point value; PNP, NPN, Push-pull; Alarm
HYSTERESIS	Hysteresis level: 51000 mm
ANALOG OUT	Voltage (010 V); Current (420 mA)
MULTIFUNCTION IN	LASER OFF; Teach IN (Thresholds); RS485 Send Data
AVERAGE	Response time: SLOW; MEDIUM; FAST
RS485	Node N°; Enable; Termination; Output mode; Delay (0254 ms)
SCALABLE OUT	Analog output range: Reset, MIN and MAX distance
FACTORY RESET	Factory default values
INFO	Software version

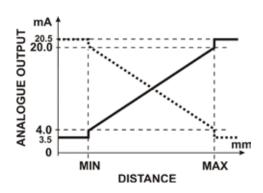
8 (RED):

MULTIFUNC.INPUT

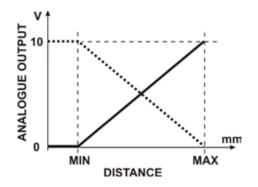
COLOUATACO

DETECTION DIAGRAMS

CURRENT ANALOG OUTPUT MEASUREMENT RANGE (4...20 mA) OUT OF RANGE (3,95...4 mA; 20...20,5 mA)



VOLTAGE ANALOG OUTPUT MEASUREMENT RANGE (0...10 V)



S85-...-Y13 ADVANCED REPEATABILITY (SLOW MODE) [WHITE 90%; GREY 18%; BLACK 6%]

SLOW MODE

Grey 18%

Repeatability [mm]

11)

10,0 9,0 8,0

73

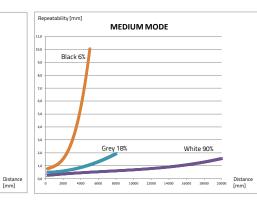
6,0 5,0 4,0

2,0

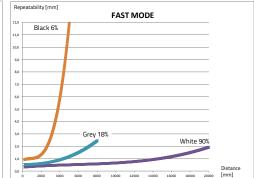
1,1

Black 6% lack 6

S85-...-Y13 ADVANCED REPEATABILITY (MEDIUM MODE) [WHITE 90%; GREY 18%; BLACK 6%]



S85-...-Y13 ADVANCED REPEATABILITY (FAST MODE) [WHITE 90%; GREY 18%; BLACK 6%]



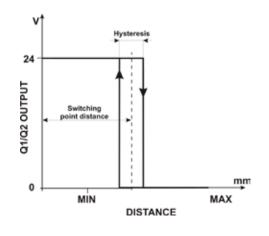
S85-...-Y13 ADVANCED REPEATABILITY/RESPONSE TIME (90% WHITE TARGET @ 20 m)

Mode	Response time	Repeatability
Slow	45 ms	< 1,5 mm
Medium	30 ms	1,5 mm
Fast	15 ms	< 2 mm

White 90%

1800





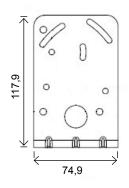
DATALOGIC

MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	OPERATING DISTANCE	CONNECTION	OUTPUT & INPUT	MODELS	ORDER No.
Distance sensor	10 m	M12 5-pole connector	2 Digital outputs; Analog output: Voltage (010 V)	S85-MH-5-Y03-00V	951511010
(Standard)			2 Digital outputs; Analog output: Current (4 20mA)	S85-MH-5-Y03-001	951511030
Distance sensor 20 m		M12 8-pole connector	2 Digital outputs; Analog output: Current (4 20mA) or Voltage (010 V); RS485; Multifunction input	S85-MH-5-Y13-00IVY	951511020
(·······			2 Digital outputs; RS485; Multifunction input	S85-MH-5-Y13-00Y	951511040

ST-S85-STD

ACCESSORIES

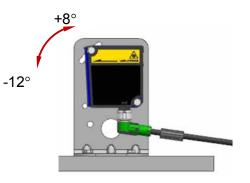












MODEL	DESCRIPTION	ORDER No.
ST-S85-STD	mounting bracket	95ACC7840

DATALOGIC

CABLES

ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.
		3 m	CS-A1-03-G-03	95ACC2110
	5-pole, grey, P.V.C.	5 m	CS-A1-03-G-05	95ACC2120
		10 m	CS-A1-03-G-10	95ACC2140
		3 m	CS-A1-03-U-03	95ASE1170
Axial M12 connector		5 m	CS-A1-03-U-05	95ASE1180
		10 m	CS-A1-03-U-10	95ASE1190
	5-pole, U.L., black, P.V.C	15 m	CS-A1-03-U-15	95ASE1200
		25 m	CS-A1-03-U-25	95ASE1210
		50 m	CS-A1-03-U-50	95A252700
		3 m	CS-A1-06-B-03	95ACC2230
Axial M12 Connector	8-pole, black, P.V.C.	5 m	CS-A1-06-B-05	95ACC2240
		10 m	CS-A1-06-B-10	95ACC2250
		3 m	CV-A2-26-B-03	95ACC1600
Radial M12 Connector		5 m	CV-A2-26-B-05	95ACC1610
		10 m	CV-A2-26-B-10	95ACC1620
		3 m	CV-A1-26-B-03	95ACC1510
	8-pole, shielded, black, P.V.C.	5 m	CV-A1-26-B-05	95ACC1520
		10 m	CV-A1-26-B-10	95ACC1530
		15 m	CV-A1-26-B-15	95ACC2080
		25 m	CV-A1-26-B-25	95ACC2100
Axial M12 Connector		3 m	CS-A1-06-U-03	95ASE1220
		5 m	CS-A1-06-U-05	95ASE1230
	Q pala III - black DVC	10 m	CS-A1-06-U-10	95ASE1240
	8-pole, U.L., black, P.V.C.	15 m	CS-A1-06-U-15	95ASE1250
		25 m	CS-A1-06-U-25	95ASE1260
		50 m	CS-A1-06-U-50	95A252710
	8-pole, black	Connector-not cabled	CS-A1-06-B-NC	95ACC2550