

# Value in Detection

## S70 the Advanced Fiber Optic Sensor



Toggle switching for easy and quick setting

Dual digital displays for signal level and threshold

Expert configurability of all operating parameters

ECO display mode for a reduced power consumption by 25%

Visible Red LED emission  
Bright output LED



IO-Link interface version

Standard M8 4-pole connection or 2 m cable

High speed output up to 10  $\mu$ s response time

PNP or NPN outputs

DIN rail standard mounting

- **ONE SENSOR, MORE NEEDS: OPTIMIZED FOR FAST OR LONG DISTANCE APPLICATIONS**
- **HIGH SPEED AND RELIABLE DETECTION OF SMALLEST OBJECTS**
- **SIMPLE SET-UP AND FULL PROGRAMMING**

S70 enhances the Datalogic fiber optic amplifiers range, ensuring reliable and stable performance as well as advanced features and design. This fiber optic sensor offers fast response times for all applications, especially for high speed or low contrast applications. A model with IO-Link interface is available for easy connection and standardized communication with your industrial network.



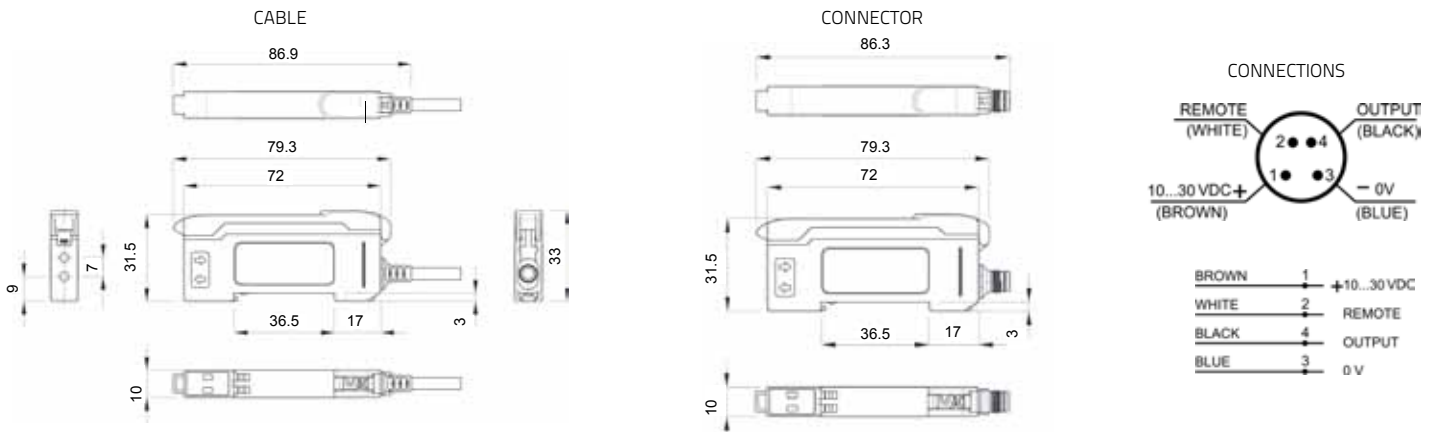
## TECHNICAL SPECIFICATIONS

Power supply	10...30 Vdc (reverse polarity protection) 18...30 Vdc (IO-Link mod. S70...PZ)
Current consumption	40 mA max. (standard display mode) 30 mA max. (ECO display mode)
Light emission	red 660 nm (mod. S70...E1) red 635 nm (mod. S70...E2) yellow OUTPUT LED
Indicators	red 4-digit display: SIGNAL LEVEL green 4-digit display: THRESHOLD
Setting	+ / SET / - push-button, LIGHT / DARK switch, RUN / PRG / ADJ mode switch
Output	PNP or NPN PNP and push-pull (IO-Link mod. S70...PZ)
IO-Link interface	baud rate: 38,400 bps (COM2) process data width: 16 bits IODD files: provide all programming options of top panel interface, plus additional functionality
Housing material	ABS and polycarbonate
Operating temperature	-10 ... 55 °C
Storage temperature	-25 ... 85 °C
Mechanical protection	IP50, NEMA 1

RESPONSE TIME	
MODE	S70-E1
High Speed	200 µs
Standard	500 µs
Long Range	2 ms
Extra Long Range	5 ms

RESPONSE TIME	
MODE	S70-E2
Super High Speed	10 µs
High Speed	15 µs
Fast	50 µs
Standard	250 µs
Medium Range	500 µs
Long Range	1 ms

All models work with any 2.2 mm fiber cable, or smaller with adapter available as accessory.



OPTIC FUNCTION	RESPONSE TIME	CONNECTION	OUTPUT	MODEL	ORDER No.
Optic fiber	200 µs ... 5 ms	2 m Cable	NPN	S70-2-E1-N	950561000
			PNP	S70-2-E1-P	950561010
		M8 Connector	NPN	S70-5-E1-N	950561060
	PNP		S70-5-E1-P	950561020	
	PNP, push-pull IO-Link		S70-5-E1-PZ	950561030	
	10 µs ... 1 ms		NPN	S70-5-E2-N	950561040
PNP			S70-5-E2-P	950561050	



Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.