



P51

Optic Pen

FEATURES

- Excellent reading performance
- Rugged anti-magnetic stainless steel enclosure
- IP64 (NEMA 12) protection
- Low power consumption
- Large depth of field
- Mechanical tip protection
- Fast scanning speed
- Lightweight
- Superior tilt angle

APPLICATIONS

- Office automation
- Shop Floor data collection
- Portable terminals
- Battery powered equipment
- POS

GENERAL DESCRIPTION

P51 has been researched and designed to match the demands of virtually all pen reader applications on the market today.

Whether connected to a portable terminal for use in aggressive environments, or for operation in office environments, **P51** is the right solution.

The optical tip of the pen uses a fiber optic coupled with a synthetic ruby to provide maximum performance and durability. To prevent damage, should the pen drop, the whole optical assembly has been spring-loaded so as to momentarily retract and absorb the shock of the impact on the body, avoiding the optical parts.

For industrial environments, **P51** has been designed to comply with IP64 (NEMA 12) degree of protection, thus preventing dust and rain from entering the pen and degrading the reading performance. The body material is anti-magnetic stainless steel, providing the highest physical protection.

Current consumption has also been a critical design factor. The P51 consumes only 6 mA, without a trade-off in performance, making it ideal for portable and battery powered devices.

Like all Datalogic products, **P51** is designed to give years of maintenance and trouble-free service. The electronics incorporate a special A.G.C. circuit, which eliminates the need for manual adjustment, thus ensuring optimum performance for years to come.

In the event of misuse or if the cable or tip become damaged, they are easily replaced at your local Datalogic service center.



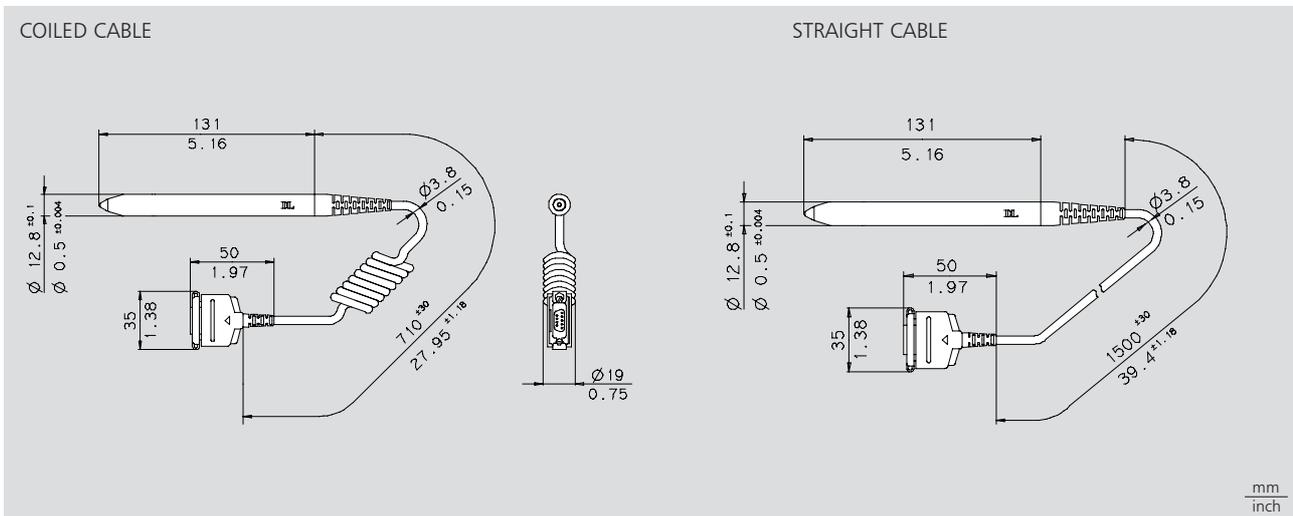
MODELS AND ACCESSORIES

TYPE	LIGHT SOURCE red (660 nm)	APERTURE - mm (mils)			CABLE/CONNECTOR			ORDER No.
		0,15 (6)	0,25 (10)	0,38 (15)	1,5 m straight no connector	2,5 m coiled DL connector	1,5 m straight DL connector	
P51R-11	•	•			•			J9703900
P51R-12	•	•				•		J9703901
P51R-14	•	•					•	J9703902
P51R-31	•		•		•			J9703906
P51R-32	•		•			•		J9703907
P51R-34	•		•				•	J9703908
P51R-21	•			•	•			J9703903
P51R-22	•			•		•		J9703904
P51R-24	•			•			•	J9703905
ACCESSORIES								
SPC1		Plastic pen holder						B8204185
SPC-08		Metal pen holder						B8202667

SPECIFICATIONS

POWER SUPPLY	5 Vdc \pm 10%	CASE MATERIAL	Stainless steel
MAX. POWER RIPPLE	100 mVpp	CABLE LENGTH	
POWER CONSUMPTION	6 mA typ.	Coiled	70 cm
DEPTH OF FIELD	1.5 mm	Extended	2.5 m
SCAN SPEED		Straight	1.5 m
0.15 mm Code	5 to 100 cm/sec	AMBIENT LIGHT CONDITIONS	4,000 lux max.
0.25 mm Code	7 to 240 cm/sec	ELECTROSTATIC DISCHARGE	
PRINT CONTRAST (min.)	PCS=0.40	IMMUNITY (R=150 Ohm C=150 pF)	20 KV
READING ANGLE	0 to 50 degrees max.	OPERATING TEMPERATURE	-10 to 50 °C
OUTPUT	NPN Transistor 20 V, 20 mA max.; Open collector is ON when the reader is on a white background	STORAGE TEMPERATURE	-30 to 80 °C
RISE AND FALL TIME		VIBRATION RESISTANCE	5 G at 5 to 400 Hz, 2 hours sinewave, sweeptime 1 octave/min x, y, z
R=5 KOhm	5 μ s (10 to 90%), 1 μ s (90 to 10%)	SHOCK RESISTANCE	400 G, 5 ms 3 shocks on 6 planes half sine
WEIGHT (without cable)	40 g	PROTECTION CLASS	IP64

DIMENSIONS



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We reserve the right to make modifications and improvements

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