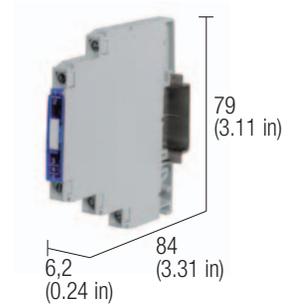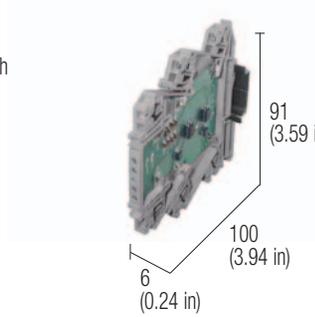# Signal optoisolators
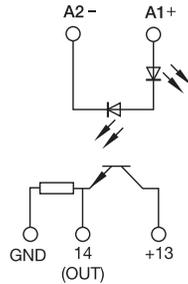
- Suitable for isolation and transmission of digital signal with high frequency
- Status LED display
- 5, 12 and 24 rated voltage
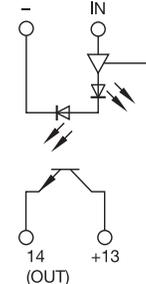- I/O isolation

91 (3.59 in)

100 (3.94 in)

6 (0.24 in)

79 (3.11 in)

84 (3.31 in)

6,2 (0.24 in)

NOTES	BLOCK DIAGRAM	BLOCK DIAGRAM

(1) Version available upon request.
CKS1S can isolate I/O high frequency signal circuits (encoders, counters etc.) to eliminate influence of different ground reference voltages and ground loops, thus reducing EMI noise influence on signal transmission of sensitive signals; it is always recommended to use balanced type shielded cables (two signal wires + shield); at transmission frequencies higher than 25 Hz the LED light appears constant, it is to be intended as "transmission ON" signal.

A2 −   A1 +

GND   14   +13
(OUT)

−   IN   +

14   +13
(OUT)

VERSIONS	Cat. No. XCKS1S	Cat. No. X766082
	CKS1S	CWOT 6-2082

INPUT TECHNICAL DATA

Input signal	3…30 Vdc	4.5…28 Vdc
Level 1 (high) input signal (ON)	≥ 3 Vdc	>4.2 Vdc
Level 0 (low) input signal (OFF)	≤ 3 Vdc	<2.7 Vdc
Rated current	≤ 10 mA @ 24 Vdc	0.1 mA

OUTPUT TECHNICAL DATA

Output signal	3…30 Vdc	5…48 Vdc
Continuous load current	80 mA / 30 Vdc @ 25°C	10…500 mA
Min. applicable load	10 mV / 2 mA	—
Switching delay	—	12 µs ON / 12 µs OFF

GENERAL TECHNICAL DATA

Operating temperature	-20…+60°C	-25…+60°C
I/O isolation	3 kVac / 60 s	3.75 kVac / 60 s
Max. switching frequency	100 kHz max. duty cycle 50/50, 70/30 max	<20 KHz
Protection degree	IP 20 IEC529 EN60529	IP 20 IEC529 EN60529
Reference Standard	IEC 664-1, EN50081-1	IEC 664-1, DIN VDE
Pollution degree	2	2
Overvoltage category	II	III
Connection terminals	2.5 mm^2 (AWG 14), AWG26-14 spring type	2.5 mm^2, AWG26-14 a vite
Housing material	Polyamide UL94V-0	PPE
Approx. weight	32 g (1.13 oz)	29 g (1.02 oz)
Mounting information	vertical on rail adjacent without gap	vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	—	—
Replacement relay (1)		—
Plug-in jumper —	Cat. No. PTCCK42 (42 poles)	—
Marking tags blank	Cat. No. NU0851	—
printed	—	—
printed	—	—
End plate	Cat. No. XCKPT	—