Signal converters and optical fiber modules

Error-free and reliable signal transmission.
Signal converters in various models and fiber optic modules enable reliable
communication – with a wide variety of interfaces – between controllers and sensors.
In addition to encoders, linear sensors, and inclinometers from Kübler, these products
are a suitable addition to the overall range of sensors. Take advantage of the new
possibilities for a comprehensive overall concept from a single source.

kuebler.com/signal_converters
kuebler.com/fiber-optic

Signal converters

		Input signals	Output signals	Control inputs	Power supply in V DC	Encoder supply in V DC	Types of connection	Protection max.	Working temperature max. in °C [°F]
	Level converter **PW 1D-1D**	incremental HTL / TTL / RS422	incremental HTL / TTL / RS422	–	5 … 30	5 … 30	screw terminals, Sub-D	IP20	0 … +45 [+32 … +113]
	Signal splitter **SP 1SC-2SC2D**	SinCos	SinCos, incremental HTL / TTL / RS422	–	17 … 30	5.2 5 … 30	screw terminals, Sub-D	IP20	0 … +45 [+32 … +113]
	Signal splitter **SP 2D-2D**	incremental HTL / TTL / RS422	incremental HTL / TTL / RS422	2	12 … 30	5,2 10 … 28	screw terminals	IP20	-20 … +60 [-4 … +140]
	Signal converter **SK 1A-1S1D2RS**	analog	incremental HTL / TTL / RS422, RS232 / RS485, SSI	4	12 … 30	–	screw terminals, Sub-D, USB	IP20	0 … +45 [+32 … +113]
	Signal converter **SK 1SC-1D**	SinCos	incremental HTL / TTL / RS422	–	18 … 30	5.5	screw terminals, Sub-D	IP20	0 … +45 [+32 … +113]
	Signal converter **SK 1S-1P**	SSI	parallel	–	18 … 36 5 12	–	screw terminals, Sub-D	IP20	0 … +50 [+32 … +122]
new	Signal converter **SK 1S1D-1A2RS**	incremental HTL / TTL / RS422, SSI	analog, RS232 / RS485	1	18 … 30	5.5	screw terminals, Sub-D	IP20	0 … +60 [+32 … +140]
new	Frequency divider **FT 1D-1D**	incremental HTL differential / HTL / TTL / RS422	incremental HTL differential / HTL / TTL / RS422	–	9 … 30	5.5	screw terminals	IP20	0 … +60 [+32 … +140]

Optical fiber modules (LWL)

		Interface	Transmission distance in m	Input frequency in kHz	Temperature range in °C [°F]	Power supply in V DC	Power consumption in W
	Optical fiber module, incremental **LWL**	RS422 HTL	2.000	400	- 10 … +60 [+14 … +140]	5 10 … 30	2
	Optical fiber module, absolute **LWL.A**	SSI	2.000	1000	-10 … +70 [+14 … +158]	5 10 … 30	1