

Indramat DKCXX.3-040-7-FW

## EcoDrive Drive Controller



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## DKC 02.3-\*\*\*-7-FW – SERCOS interface

### View of command communication interface

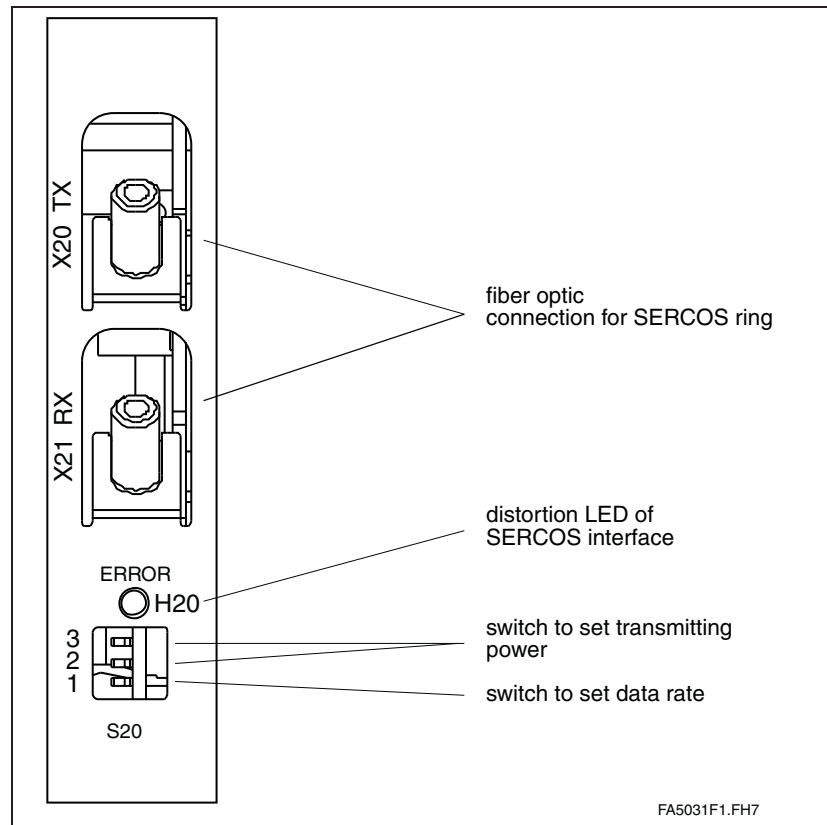


Fig. 4-175: View of command communication interface

### Connection diagram for SERCOS interface

Connection  
SERCOS interface:

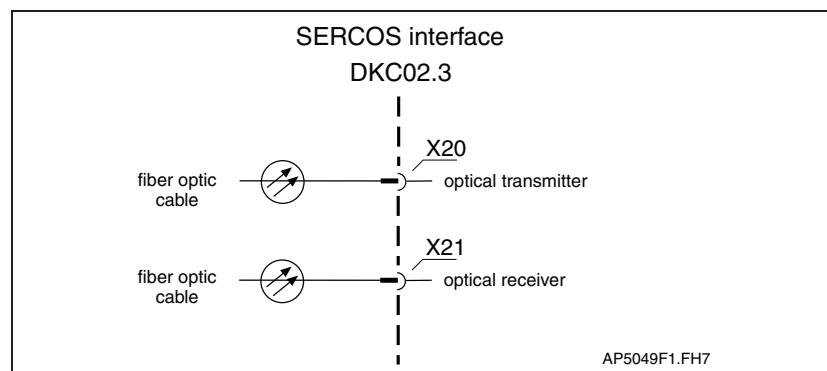


Fig. 4-176: I/O connection allocations for DKC02.3

## Switch S20

- Data rate, transmitter power** The transmitter power and the data rate for the SERCOS interface are set with the switch S20.
- The DKC is factory set to an average transmitter power (-4.5 dBm) and the lowest data rate (2 Mbit/s).
- Position of switch** The switches are in OFF position if the switch lever is facing the rear (rear panel). Switch S20/1 is down (see marking on the unit).

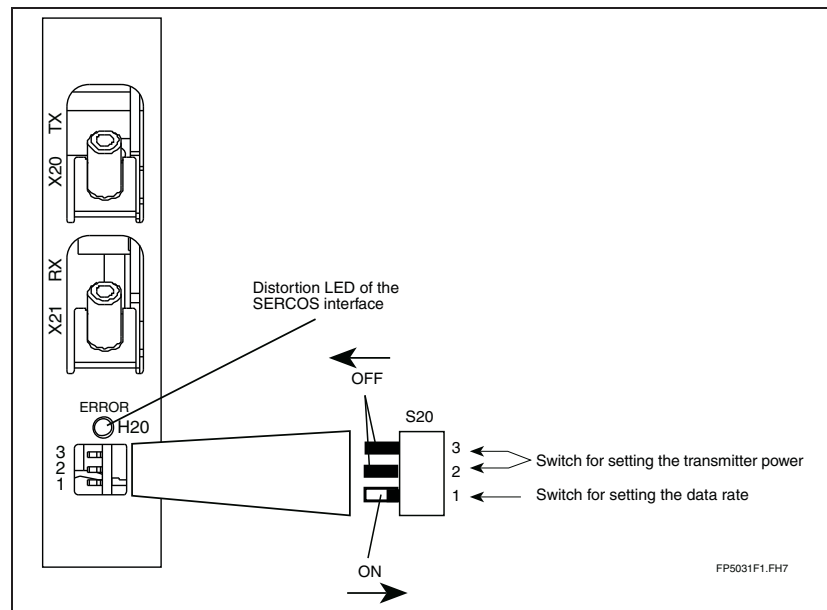


Fig. 4-177: Position of the switch for data rate and transmitter power demonstrating how to switch it ON and OFF

- Data rate** The data rate is set with the switch S20/1.

Position of switch S20/1	Data rate in Mbit/s
OFF	2
ON	4

Fig. 4-178: Relationship between switch position S20/1 and the data rate

**Transmitter power** The transmitter power is set with the switches S20/2 and S20/3.  
The following table demonstrates the relationship between switch position and transmitter power.

Switch position S20/2	Switch position S20/3	Transmission power at optimum high level in dBm	Transmission power at optimum high level in $\mu$ W	Maximum length with plastic fiber optic (*1)	Maximum length with glass fiber optic (*1)
OFF	OFF	-7	200	0...15 m	--
ON	OFF	-4,5	350	15...25 m	--
OFF	ON	-1	800	25...35 m	--
ON	ON	0	1000	35...50 m	0...500 m

Fig. 4-179: Relationship between switch position S20/2, S20/3 and the data rate

(\*1): The data for the maximum lengths of the fiber optic cable only apply if the following preconditions have been met:

- Rexroth Indramat fiber optic cables IKO 982, IKO985 or IKO 001 are used
- Connection without separation. If couplings are used, the maximum length for plastic fiber optic cables is reduced by about 10 meter, 100 meters for glass fiber optic cables.

### Fiber optic cables

Drives with a SERCOS interface are connected to higher-level controls with a fiber optic cable.

The fiber optic cables (cables, connectors or complete leads) must be ordered separately.

For more information, see "Fiber optic cables" in application description "LWL-Handling" (DOK-CONNEC-CABLE\*LWL-AWxx-EN-P).

"LWL-Handling" discusses:

- Fiber optics in general
- Basic plans for optical transmission systems
- Routing guidelines for fiber optic cables
- Attenuation readings of standard LWL cables
- Available fiber optic-FSMA plug-in connectors and fiber optic cables
- Guidelines on making an FSMA connector
- Tools for making fiber optic cables

Use the following illustration to find out which fiber optic cable to order.

Selecting fiber optic  
connections:

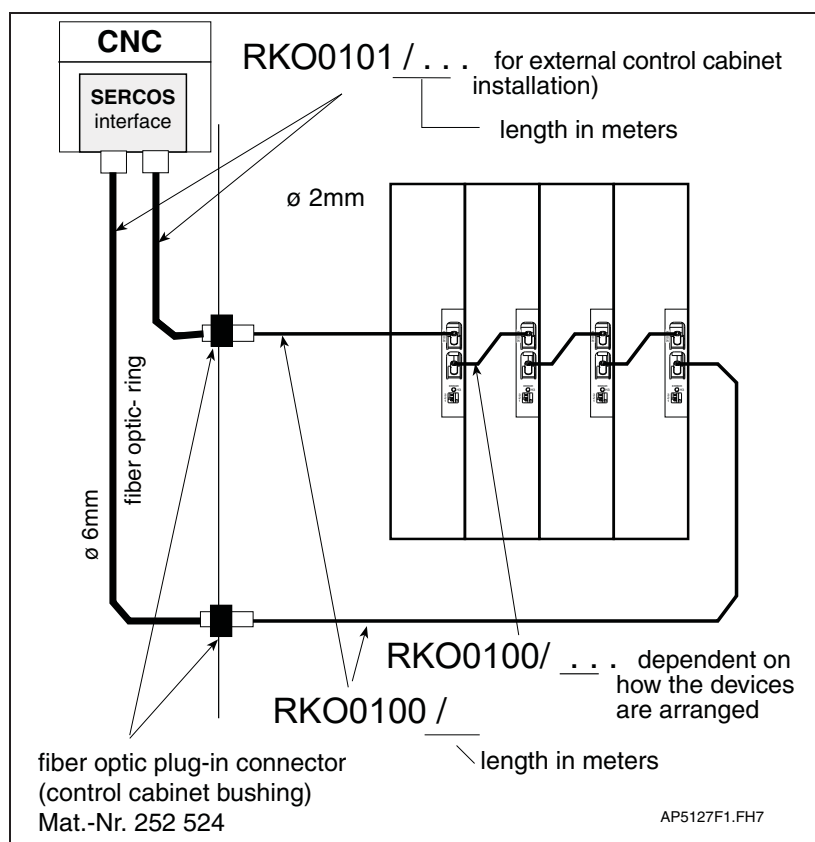


Fig. 4-180: Selecting standard fiber optic cables

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