

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

DKC 02.3-***-7-FW – SERCOS interface

View of command communication interface

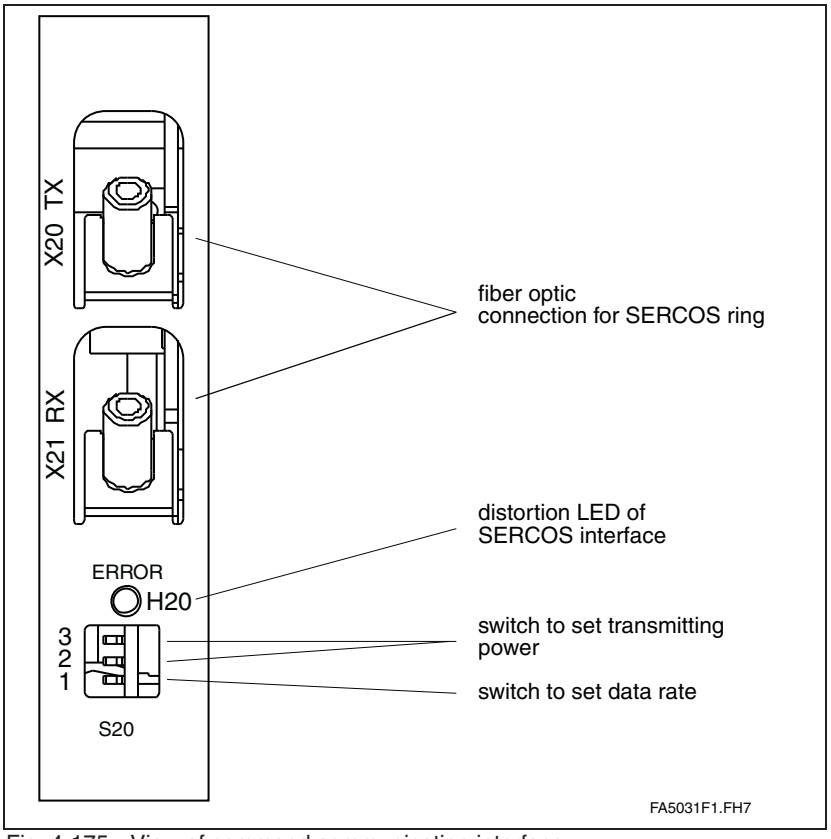


Fig. 4-175: View of command communication interface

Connection diagram for SERCOS interface

Connection SERCOS interface:

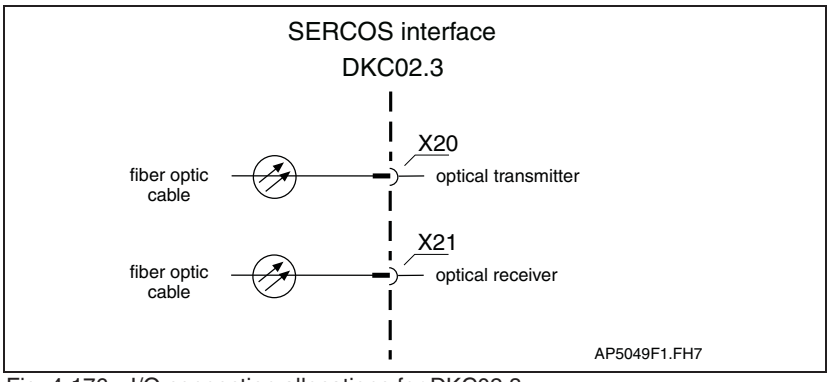


Fig. 4-176: I/O connection allocations for DKC02.3

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).

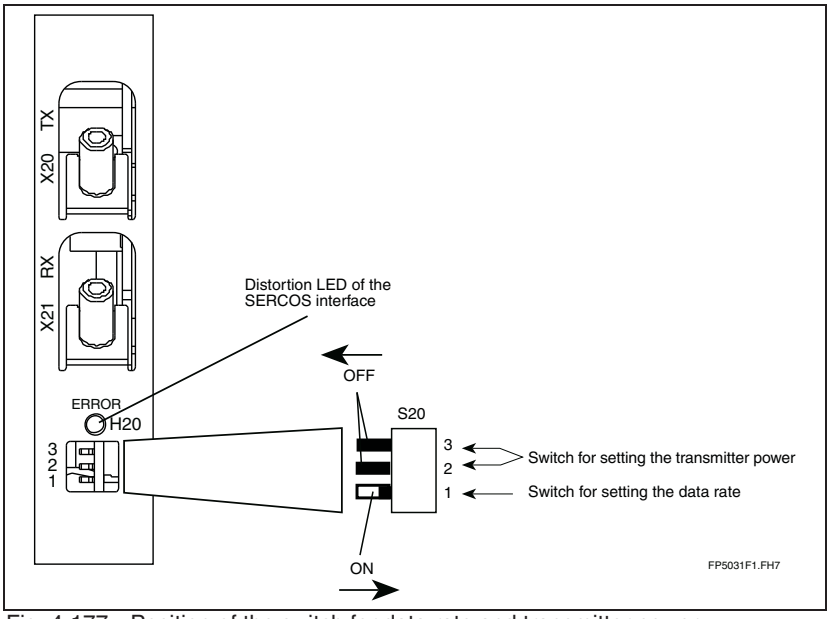


Fig. 4-177: Position of the switch for data rate and transmitter power demonstrating how to switch it ON and OFF

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 µW	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:

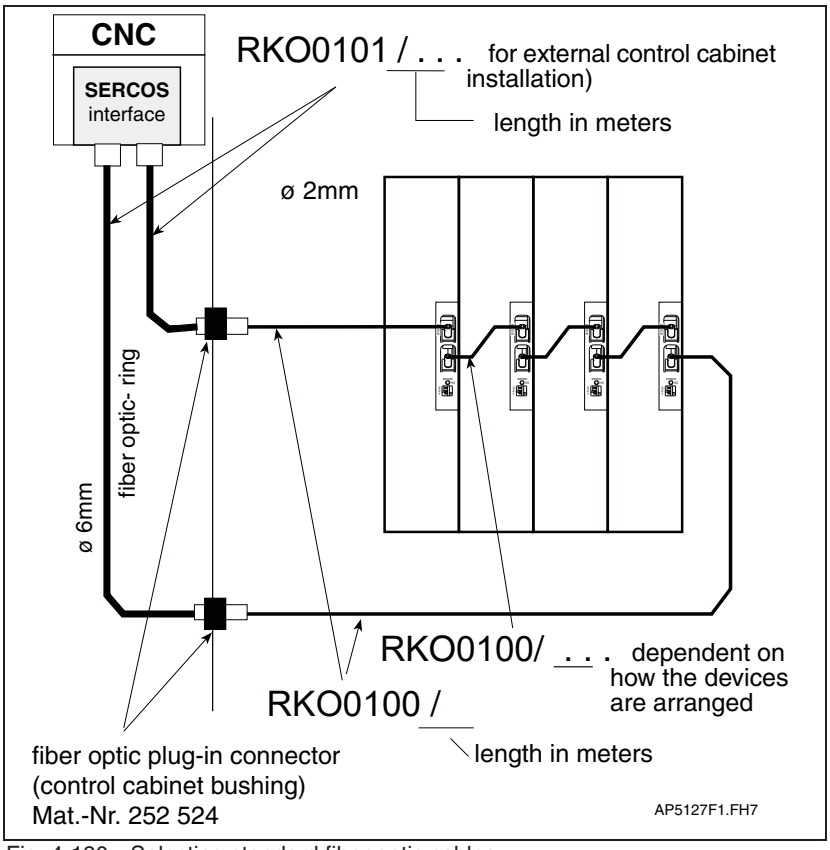


Fig. 4-180: Selecting standard fiber optic cables

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP