

## IO-Link

### ○Communication function

This product can check the position measurement value, diagnostic information and switch output status using cyclic data communication via the IO-Link system.

### ○Data storage function

The data storage function stores the IO-Link device parameter settings to the IO-Link master. With the IO-Link data storage function, the IO-link device can be replaced easily without re-setting the equipment construction or setting parameters.

When the device parameters are set and downloaded to the device using the IO-Link setting tool, the parameters in the downloaded device will be activated. After that, these parameters are uploaded to the data storage in the master by stem command (back-up communication command). When the device is replaced with the same type of IO-Link device, the parameter settings stored in the master are downloaded automatically, the device can be operated with the parameter settings of the previous device.

3 types of back up level of the data storage can be set for each master port using IO-Link setting tool ("Disabled", "back-up/restore", "restore").

"Back-up" implies the activation of upload and "restore" implies download.

### ●Communication specifications

IO-Link type	Device
IO-Link version	V1.1
SIO mode	Available
Communication speed	COM3 (230.4 kbps)
Min. cycle time	1 ms
Process data length	Input: 2 byte, Output: 0 byte

### ●Process data

Process data is the data which is exchanged periodically between the master and device.

This product process data consists of switch output status and position measurement value

Bit offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Description *1	Position measurement value (PD)												BDC4	BDC3	BDC2	BDC1

\*1: BDC = Binary Data Channel

•The process data of this product is Big-Endian type.

When the transmission method of the upper communication is Little-Endian, the byte order will be changed