Data sheet

IO-Link

996-01013

IMT 30-S-NB2-PSL-L4M

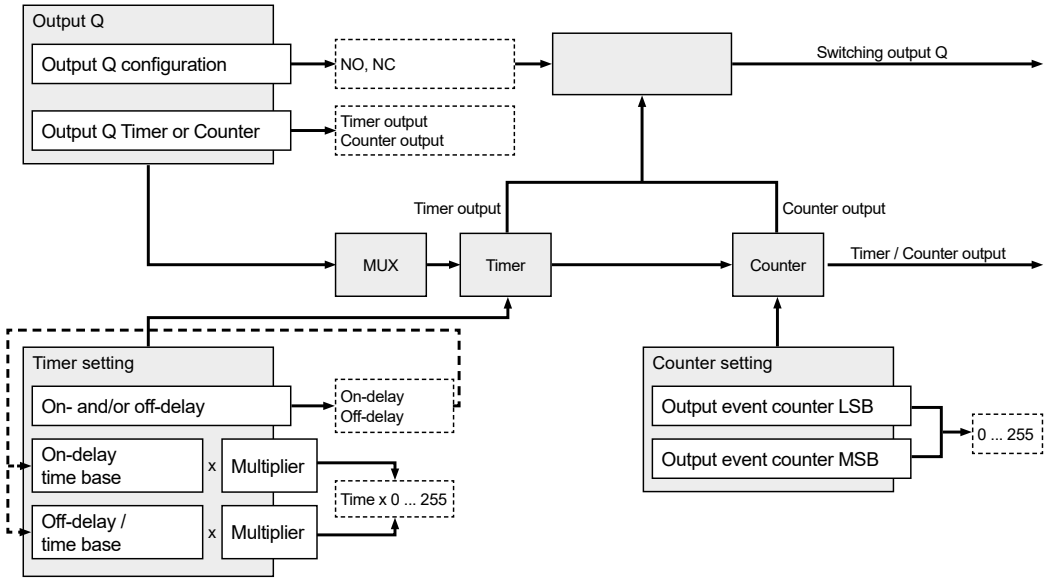
096-00058 09.03.2021-00
www.sensopart.com

GENERAL INFORMATION	
Communication mode IO-Link	COM 2
Min. cycle time	10.4 ms
SIO mode	Supported
Length process data	2 Bit
Vendor ID	347 (0x01 0x5B)
Device ID	31489
Specification IO-Link	1.1
ISDU	Not supported

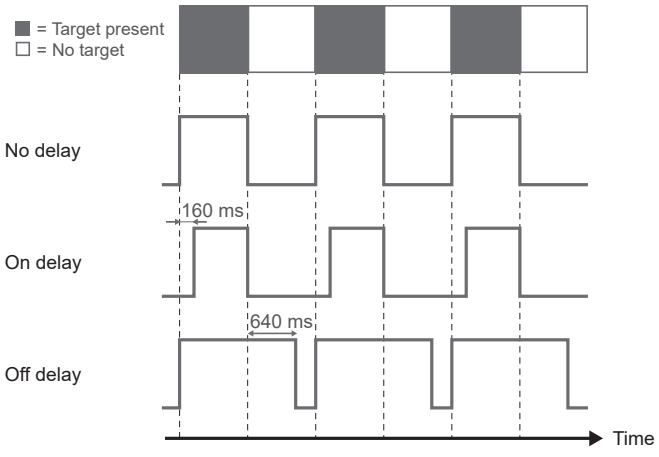
PROCESS DATA

	Bit	Name	Description
Byte 0	1	Switching point 2 (80 %)	Value "True" = object is detected with margin Value "False" = no detection with margin
	0	Switching point 1 (100 %)	Value "True" = object is detected Value "False" = no detection

SIGNAL FLOW CHART



TIMER PARAMETER



DEVICE-SPECIFIC PARAMETER DATA TABLE									
Direct parameter page 2 address dec / hex	**Index dec / hex**	**Subindex dec / hex**	**Length**	**Bit offset**	**Access**	**Default value**	**Range**	**Description**	**Comment**
16 / 0x10	1 / 0x01	1 / 0x01	2 Bit	3 Bit	Read / write	0	0 ... 3	On-delay and/or off-delay time base	0 = 0.1 ms 1 = 0.4 ms 2 = 1.6 ms 3 = 6.4 ms
	1 / 0x01	1 / 0x01	2 Bit	1 Bit	Read / write	0	0 ... 3	On-delay and/or off-delay	Off-delay or On-delay Switching timer mode 0 = no timer 1 = Off-delay 2 = On-delay 3 = Off-delay and On-delay on
	1 / 0x01	1 / 0x01	1 Bit	0	Read / write	1	0 ... 1	Output function	0 = NC 1 = NO
17 / 0x11	1 / 0x01	2 / 0x02	8 Bit	0	Read / write	0	0 ... 255	On-delay and/or off-delay multiplier	Multiplier for the on delay timer. Example: A value of 100 and an on delay of 1.6 ms (parameter: on delay = 2) generates a delay of 160 ms.
18 / 0x12	1 / 0x01	3 / 0x03	8 Bit	0	Read / write	0	0 ... 255	Output event counter LSB	LSB value of the 16 bit detection counter (max. 65.536 cycles). Any write operation resets the counter to 0.
19 / 0x13		4 / 0x04		0	Read / write	0	0 ... 255	Output event counter MSB	MSB value of the 16 bit detection counter (max. 65.536 cycles). Any write operation resets the counter to 0.
									Example: 200 switching cycles needed: LSB = 200, MSB = 0 400 switching cycles needed: LSB = 144, MSB = 1
20 / 0x14	1 / 0x01	5 / 0x05	8 Bit	0	Read	171	0 ... 255	Temperature threshold	Temperature threshold value Set to 171 (70°C) by default. Real_Temp [°C] = (Max_Temp-128)/(128*0.01206)+42.5
21 / 0x15	1 / 0x01	6 / 0x06	8 Bit	0	Read		0 ... 255	Current temperature	Actual sensor temperature. Real temp [°C] = (Act_Temp-128)/(128*0.01206)+42.5

EVENT		
Bit	**Name**	**Description**
7	Event details	**Always 0, no event detail**
6	Invalid process data	1 if LC oscillator is not running
5	Reserved	Always 0
4	Communicator error	Always 0
3	Device error	1 if LC oscillator is not running
2	Parameter error	Always 0
1	Device warning	1 if under voltage
0	Device message	Always 0