IO-Link data table

GENERAL INFORMATION

Communication mode IO-Link	COM 2
Min. cycle time	2.3 ms
SIO mode	Supported
Length process data	8 Bit
Vendor ID	1832 / 0x0728
Device ID	125 (0x00007D)
Data storage	Supported
Specification IO-Link	1.1

PROCESS DATA PROFILE 0: SWITCHING OUTPUTS

Byte 0								Byte 1								Byte 2								Byte 3								Byte 4								Byte 5							
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
x	x	x	x	x	x	x	x	x	x	x	x	Quality MSB D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	Quality LSB D0	x	x	x	x	x	x	x	Q quality	x	x	x	x	x	x	x	x	x	Q5	Q4	Q3	Q2	Q1	Q0	Q1

Signal quality [0...100%]
Switching quality
Switching outputs

PROCESS DATA PROFILE 1:COLOR VALUES

Byte 0								Byte 1								Byte 2								Byte 3								Byte 4								Byte 5							
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Energy MSB D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	Energy LSB D0	Blue MSB D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	Blue LSB D0	Green MSB D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	Green LSB D0	Red MSB D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	Red LSB D0

Energy [0...4095]
Ratio blue [0...4095]
Ratio green [0...4095]
Ratio red [0...4095]

IDENTIFICATION DATA

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
16 / 0x10	R	StringT	64 Bytes	0	TMSS France	-	Vendor Name	The vendor name that is assigned to a Vendor ID
17 / 0x11	R	StringT	64 Bytes	0	Simply easy!	-	Vendor Text	Additional information about the vendor.
18 / 0x12	R	StringT	64 Bytes	0	XUKCBLAYM12	-	Product Name	Complete product name.
19 / 0x13	R	StringT	64 Bytes	0	XUKCBLAYM12	-	Product ID	Vendor-specific product or type identification (e.g., item number or model number).
20 / 0x14	R	StringT	64 Bytes	0	PHOTO COMPACT COLOR IOL M12	-	Product Text	The parameter Product Text contains additional product information for the device.
21 / 0x15	R	StringT	16 Bytes	0	-	-	Serial Number	Unique, vendor-specific identifier of the individual device.
22 / 0x16	R	StringT	64 Bytes	0	-	-	Hardware Revision	Unique, vendor-specific identifier of the hardware revision of the individual device (For example: HW-V1.0).
23 / 0x17	R	StringT	64 Bytes	0	-	-	Firmware Revision	Unique, vendor-specific identifier of the firmware revision of the individual device (For example: FW-V1.0).

SYSTEM COMMAND

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
2 / 0x02	W	UIntegerT	8 Bit	0	-	160 = Emitter OFF 161 = Emitter ON 162 = Reset switching-channel 175 = Detect sensor 128 = Device Reset 130 = Restore Factory Settings	System command	160: Led emission OFF to test if the sensor output switches ON (or OFF if set in NC) 161: Led emission ON which is the normal sensor usage 162: Reset of current switching channel 175: Select the way to identify the sensor using their LEDs 1x activated - sensor flashes 60 s 2x activated - permanent flashing 3x activated - stop permanent flashing 128: Shutdown sensor with 200ms delay / Restart the sensor 130: Restore factory settings

(1) R = Read / W = Write

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Telemecanique Sensors

DIRECT PARAMETERS

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
0 / 0x00	R/W	UIntegerT	128 Bit	0	-	-	Direct Parameters - Page 1	Contain the required parameters defining the communication characteristics and identifiers for device validation.
	R	UIntegerT	8 Bit	1	-	-	Reserved	-
			8 Bit	2	-	-	Master Cycle Time	Communication: Current communication cycle duration used by the master. This value defines the process data cycle.
			8 Bit	3	-	-	Min Cycle Time	Communication: Minimum communication cycle duration supported by the device. This value defines the lowest possible process data cycle.
			8 Bit	4	-	-	M-Sequence Capability	Communication: Information on the structure and the supported features of the communication messages.
			8 Bit	5	17	-	IO-Link Revision ID	Communication: Revision Identification for the currently used communication protocol revision.
			8 Bit	6	-	-	Process Data Input Length	Communication: Information on Length and characteristics of the process input data (Process Data from Device to Master).
			8 Bit	7	-	-	Process Data Output Length	Communication: Information on Length of the process output data (Process Data from Master to Device).
			8 Bit	8	-	-	Vendor ID 1	Identification: Highest byte of the Vendor ID. Combined with the parameter Vendor ID 2, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
			8 Bit	9	-	-	Vendor ID 2	Identification: Lowest byte of the Vendor ID. Combined with the parameter Vendor ID 1, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
			8 Bit	10	-	-	Device ID 1	Identification: Highest byte of the Device ID. Combined with the parameters Device ID 2 and 3, this parameter defines the 24-bit value of the vendorspecific Device ID.
			8 Bit	11	-	-	Device ID 2	Identification: Middle byte of the Device ID. Combined with the parameters Device ID 1 and 3, this parameter defines the 24-bit value of the vendorspecific Device ID.
			8 Bit	12	-	-	Device ID 3	Identification: Lowest byte of the Device ID. Combined with the parameters Device ID 1 and 2, this parameter defines the 24-bit value of the vendorspecific Device ID.
			8 Bit	13	-	-	Reserved	-
			8 Bit	14	-	-	Reserved	-
			8 Bit	15	-	-	Reserved	-
	W	UIntegerT	8 Bit	16	-	-	System Command	Application: Command interface for devices without ISDU support. Validity and execution of commands are not confirmed.

DETECTION PARAMETERS (1/2)

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
System Command								
2 / 0x02	W	UIntegerT	8 Bit	0	-	208 = Teach Apply 209 = Single value teach 215 = Color scan start 216 = Color scan stop 223 = Teach cancel	System command	208: Adopt teach values on sensor 209: Teaches the color seen at this moment 215 and 216: Detects all colors taught during the scan 223: Before applying the teach (using the value 208) it's possible to cancel it
Parameter								
128 / 0x80	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C1	C1 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
129 / 0x81	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C2	C2 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
130 / 0x82	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C3	C3 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
131 / 0x83	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C4	C4 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy

(1) R = Read / W = Write

DETECTION PARAMETERS (2/2)

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
Parameter								
132 / 0x84	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C5	C5 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
133 / 0x85	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C6	C6 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
134 / 0x86	R/W	UIntegerT	96 Bit	0	-	-	Color Tolerances C7	C7 color tolerance setting
			16 Bit	1	1365	0...4095	Ratio red	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	2	1365	0...4095	Ratio green	Defines the amount of color present in the target. Ratio blue = 4095 - red - green.
			16 Bit	3	4095	0...4095	Energy	Defines the Energy tolerance. Energy replaces blue in the RGB colour space. The advantage of this is that the energy correction can be applied across the entire working range. This means that the sensor will emit the same colour value when you move your target within the working range.
			16 Bit	4	65	0...4095	Red tolerance	Defines the tolerance of the percentage of color present
			16 Bit	5	65	0...4095	Green tolerance	Defines the tolerance of the percentage of color present
			16 Bit	6	75	0...4095	Energy tolerance	Defines the tolerance of the Energy
177 / 0xB1	R/W	Record	8 Bit	0	0	0 = Color mode, 1 = Best fit	Detection mode	Select the detection mode
196 / 0xC4	R/W	UIntegerT	8 Bit	1	0	10...90	Signal quality level	This value indicates the level at which the signal quality bit changes state. If the signal quality is lower than the signal quality level, the quality bit in the process data is set.
204 / 0xCC	R	UIntegerT	8 Bit	0	-	-	Teach-in-status	The parameter "Teach-in Status" provides feedback on the status and the results of the teach-in process
		UIntegerT	4 Bit	1	0	0 = Idle, 1 = Teach successful, 2 = Teach successful, 3 = Teach successful, 4 = Wait for command, 5 = Busy, 7 = Error	Teach status	Indicates the status of the teach-in process
		Boolean	1 Bit	2	0	false = -, true = Teach successful	Teach flag SP1 -> TP1	Teach flag for SP1 TP1
		Boolean	1 Bit	3	0	false = -, true = Teach successful	Teach flag SP1 -> TP2	Teach flag for SP1 TP2
		Boolean	1 Bit	4	0	false = -, true = Teach successful	Teach flag SP2 -> TP1	Teach flag for SP2 TP1
		Boolean	1 Bit	5	0	false = -, true = Teach successful	Teach flag SP2 -> TP2	Teach flag for SP2 TP2

DATA PARAMETERS

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
82 / 0x52	R	UIntegerT	40 Bit	0	-	-	Temperature	The following parameters indicate different operating temperatures
			8 Bit	1	-	-	Operating temperature	Read the current operating temperature
			8 Bit	2	-	-	Max. operating temperature since restart	Read the maximum operating temperature recorded since last restart
			8 Bit	3	-	-	Min. operating temperature since restart	Read the minimum operating temperature recorded since last restart
			8 Bit	4	-	-	Max. lifetime temperature	Read the maximum operating temperature recorded since the first usage
			8 Bit	5	-	-	Min. lifetime temperature	Read the minimum operating temperature recorded since the first usage
88 / 0x58	R	UIntegerT	64 Bit	0	-	-	Operating data	The 2 following parameters indicate the operating hours counter and the switch cycle counter.
			32 Bit	1	-	-	Counter operating hours	Number of operating hours. The data can be only read; no reset possible
			32 Bit	2	-	-	Counter switch cycle	Number of output change status (On & Off)
95 / 0x5F	R	StringT	424 Bit	0	-	-	Electronic data sheet	Sensor datasheet
			11 Bytes	1	20 ... 150 mm	-	Measurement range	Read the sensor nominal sensing distance
			10 Bytes	2	LED, white	-	Type of light and laser class	Type of emited light
			8 Bytes	3	<= 60 mA	-	No-load current	Read the sensor nominal no-load current
			8 Bytes	4	<= 3 kHz	-	Switching frequency	Read the sensor nominal switching frequency
			5 Bytes	5	-	-	Warm-up time	Not applicable
			11 Bytes	6	-20...55 °C	-	Ambient temperature	Read the sensor nominal operating temperature
207 / 0xCF	R	UIntegerT	9 Bit	1	-	0...100	Current signal quality	Indicates the signal quality value from the process data

(1) R = Read / W = Write

FUNCTION PARAMETERS

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
12 / 0x0C	R/W	Boolean	16 Bit	0	-	-	Device Access Locks	The access to the device parameters can be restricted by setting appropriate flags within this parameter.
				1	0	false = Unlocked, true = Locked	Parameter Write Access	This lock prevents the write access to all read/write parameters of the device except for the parameter 'Device Access Locks'.
				2	0	false = Unlocked, true = Locked	Data Storage	This lock prevents the write access to the device parameters via the data storage mechanism.
				3	-	-	Local Parameterization	This lock prevents the device settings from being changed via local operating elements on the device. (subindex access not supported)
				4	0	false = Unlocked, true = Locked	Local User Interface	This lock prevents the access to the device settings and display via a local user interface. The user interface is disabled.
24 / 0x18	R/W	StringT	32 Bytes	0	"***...***"	-	Application-specific Tag	Possibility to mark a device with user- or application-specific information.
202 / 0xCA	R/W	UIntegerT	8 Bit	0	0	0 = Switching Channel, 1 = Color Values	Processdata profile	Select the Processdata profile
203 / 0xCB	R/W	UIntegerT	8 Bit	0	-	-	Switching output Teach-In	-
			8 Bit	1	1	0 = Q1, 1 = Q1, 2 = Q2, 3 = Q3, 4 = Q4, 5 = Q5, 6 = Q6, 7 = Q7	Teach channel	Select switching output Teach-In
224 / 0xE0	R/W	UIntegerT	16 Bit	0	-	-	Display	Display settings
			8 Bit	1	1	0 = Screensaver OFF, 1 = Screensaver ON	Screensaver	Enable or disable screen saver
			8 Bit	2	1	0 = Display read from back, 1 = Display read from front	Rotate display	Select display reading

OUTPUT PARAMETERS (1/3)

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
System Command								
2 / 0x02	W	UIntegerT	8 Bit	0	-	169 = Trigger Input Pin 170 = Trigger ON 171 = Trigger OFF	System command	To test function set Q2 as trigger input
Parameter								
96 / 0x60	R/W	UIntegerT	104 Bit	0	-	-	Color C1 at output Q1	Settings of Q1 color at output Q1
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
			16 Bit	5	0	0...65535	Counter	Switching only every nth defined cycle
			16 Bit	6	0	0...65535	On-delay	In ms, adjustable in 1 ms
			16 Bit	7	0	0...65535	Off-delay	In ms, adjustable in 1 ms
			16 Bit	8	0	0...65535	Impulse (one shot)	In ms, adjustable in 1 ms
			8 Bit	9	0	0 = Not connected, 1 = Combine with color C4, 2 = Exclude with color C4	Connect colors	Select color connection

(1) R = Read / W = Write

OUTPUT PARAMETERS (2/3)								
Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
97 / 0x61	R/W	UIntegerT	104 Bit	0	-	-	Color C2 at output Q2	Settings of Q2 color at output Q2
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output, 3 = Input (Trigger)	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
			16 Bit	5	0	0...65535	Counter	Switching only every nth defined cycle
			16 Bit	6	0	0...65535	On-delay	In ms, adjustable in 1 ms
			16 Bit	7	0	0...65535	Off-delay	In ms, adjustable in 1 ms
			16 Bit	8	0	0...65535	Impulse (one shot)	In ms, adjustable in 1 ms
			8 Bit	9	0	0 = Not connected, 1 = Combine with color C5, 2 = Exclude with color C5	Connect colors	Select color connection
98 / 0x62	R/W	UIntegerT	104 Bit	0	-	-	Color C3 at output Q3	Settings of Q3 color at output Q3
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output, 2 = Input (KeyLock)	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
			16 Bit	5	0	0...65535	Counter	Switches only every nth cycle
			16 Bit	6	0	0...65535	On-delay	In ms, adjustable in 1 ms
			16 Bit	7	0	0...65535	Off-delay	In ms, adjustable in 1 ms
			16 Bit	8	0	0...65535	Impulse (one shot)	In ms, adjustable in 1 ms
			8 Bit	9	0	0 = Not connected, 1 = Combine with color C6, 2 = Exclude with color C6	Connect colors	Select color connection
99 / 0x63	R/W	UIntegerT	32 Bit	0	-	-	Color C4 at virtual output Q4	Settings of Q4 color at virtual output Q4
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation

(1) R = Read / W = Write

OUTPUT PARAMETERS (3/3)

Index (dec/hex)	Access(1)	Data type	Length	Sub-index	Default value	Value Range	Object Name	Description
100 / 0x64	R/W	UIntegerT	32 Bit	0	-	-	Color C5 at virtual output Q5	Settings of Q5 color at virtual output Q5
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
101 / 0x65	R/W	UIntegerT	32 Bit	0	-	-	Color C6 at virtual output Q6	Settings of Q6 color at virtual output Q6
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
102 / 0x66	R/W	UIntegerT	32 Bit	0	-	-	Color C7 at virtual output Q7	Settings of Q7 color at virtual output Q7
			8 Bit	1	3	0 = Finest tolerance level, 1 = 2nd tolerance level, 2 = 3rd tolerance level, 3 = 4th tolerance level, 4 = 5th tolerance level, 5 = 6th tolerance level, 6 = 7th tolerance level, 7 = 8th tolerance level, 8 = Roughest tolerance level	Tolerance	Define the level of the tolerance
			8 Bit	2	0	0 = NO, 1 = NC	NO / NC	The parameter "NO / NC" defines whether the switching information is transmitted in inverted or not inverted manner. Select the output function between NO (Normally Open) and NC (Normally Closed).
			8 Bit	3	0	0 = Disable, 1 = Output	Function switching output	Select the function switching output or disable
			8 Bit	4	1	0 = Off, 1 = On	Energy evaluation	Enable or disable the energy evaluation
176 / 0xB0	R/W	UIntegerT	24 Bit	0	-	-	Function Q all	Settings for all Q outputs
			8 Bit	1	1	0 = NPN, 1 = PNP, 2 = Auto	PNP / NPN	Define the output function type of the sensor (NPN / Auto / PNP).
			8 Bit	2	1	0 = 3 Hz, 1 = 30 Hz, 2 = 100 Hz, 3 =300 Hz, 4 = 500 Hz, 5 = 1500 Hz, 6 = 3000 Hz	Swichting frequency/ Averaging	Select the function swichting frequency / Averaging
			8 Bit	3	0	0 = Disable, 1 = Enable	Binary output	Enable or disable the binary output

EVENTS

Code (dec/hex)	Warning	Name	Description
20480 / 0x5000	Error	Device hardware fault	Exchange device
16384 / 0x4000	Error	Temperature fault	Overload
16912 / 0x4210	Warning	Device temperature overrun	Clear source of heat
16928 / 0x4220	Warning	Device temperature underrun	Insulate device

(1) R = Read / W = Write