

This Sensor Family are IO-Link communication enabled the must be compatible with IO-Link V1.0 and V1.1 specifications

PHYSICAL LAYER	
Description	
IO-Link Revision	1.0-1.1
SIO Modus	YES
Min Cycle Time	2.3ms
Budrate	COM2
Block parametrization	YES
Data Storage	YES
Process Data Length	16 bits

DEVICE PARAMETRIZATION							
Index Decimal (hex)	Value	Description	Format	Access	Value Range		Remarks
16(0x0010)		Vendor Name	String	ro	64 Bytes	DATALOGIC AUTOMATION S.R.L.	
17(0x0011)		Vendor Text	String	ro	64 Bytes	Datalogic Automation	
18(0x0012)		Product Name	String	ro	64 Bytes	S65-PA-5-M13-OOZ	
19(0x0013)		Product ID	String	ro	64 Bytes	S65-PA-5-M13-OOZ	
20(0x0014)		Product Text	String	ro	64 Bytes	TOF Background Suppressor sensor	
21(0x0015)		Serial Number	String	ro	16 Bytes		
22(0x0016)		Hardware Version	String	ro	4 Bytes		
23(0x0017)		Software Version	String	ro	4 Bytes		
24(0x0018)		Application Specific Tag	String	rw	64 Bytes		
77(0x004D)		User TAG1	String	rw	32 bits		Write in flash memory of the device
78(0x004E)		User TAG2	String	rw	32 bits		Write in flash memory of the device
		Process Data	UINT16	ro	16 bits		
<b>Device Specific</b>							
64(0x0040)		Emitter Status	Boolean	rw	1Byte	0=OFF; 1=ON	
65(0x0041)		Keylock Status	Boolean	ro	1Byte	0=OFF; 1=ON	
66(0x0042)		Teach Status Q1	Boolean	ro	1Byte	0=OK; 1=Error	
67(0x0043)		Teach Status Q2	Boolean	ro	1Byte	0=OK; 1=Error	
68(0x0044)		Temperature	Byte	ro	1 Byte	Temperature value in BCD format	
69(0x0045)		Active Seconds	UINT32	ro	32 bits	Time in seconds	Start counting at Power on
70(0x0046)		Active Minutes	UINT32	ro	32 bits	Time in minutes	Start counting at Power on
71(0x0047)		Active Hours	UINT32	ro	32 bits	Time in hours	Start counting at Power on
72(0x0048)		Switching Point 1 Value	UINT16	rw	2 Bytes	Distance in mm (default 2000mm)	Write in flash memory of the device
73(0x0049)		Switching Point 2 Value	UINT16	rw	2 Bytes	Distance in mm (default 2000mm)	Write in flash memory of the device
74(0x004A)		Switching point configuration	Byte	rw	1 Byte	0=Deactivated 1=Window (SP2>SP1+Hyst) 2=Single point (only Q2) 3=Two points (default)	In Window and Single point mode, only Q2 is used to set the switching points Q1 works only in SIO mode Write in flash memory of the device
76(0x004C)		External Teach	Boolean	rw	1 Byte	0=Deactivated 1=Active (default)	
79(0x004F)		Output mode	Boolean	ro	1 Byte	0=NPN 1=PNP (default)	(in NPN mode IO-LINK connection is not possible)
80(0x0050)		Light/Dark mode	Boolean	rw	1 Byte	0=Dark 1=Light (default)	Write in flash memory of the device
81(0x0051)		Hysteresis	UINT16	rw	1 Byte	0=80 mm (default) 1=50 mm 2=20 mm	Write in flash memory of the device
<b>System Commands</b>							
2(0x0002)	130(0x82)	Restore Factory Settings	Byte	wo	1 Byte	Restore Factory Settings	Outmode/LDMode/Hyst/SP/switching point configuration are restored and written in flash memory of the device
2(0x0002)	160(0xA0)	Pointer Toggle	Byte	wo	1 Byte	0=OFF; 1=ON	
2(0x0002)	161(0xA1)	Key Lock Set	Byte	wo	1 Byte	0=OFF; 1=Active	
2(0x0002)	162(0xA2)	Teach Q1	Byte	wo	1 Byte		Write in flash memory of the device
2(0x0002)	163(0xA3)	Teach Q2	Byte	wo	1 Byte		Write in flash memory of the device

Event Commands		
CODE	Name	Type
16384(0x4000)	Temperature Fault	Error
36000(0x8CA0)	No Valid Pixels	Error
36001(0x8CA1)	Saturated Pixels	Error

**PROCESS DATA**

BYTE 2								BYTE 1							
Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Q2 STATUS	Q1 STATUS	Distance Measurement Value - 14 bit total - High Side						Distance Measurement Value - 14 bit total - Low Side							
MSB-2							LSB-2	MSB-1	LSB-1						