



8015681 1112

MPA...B01

1933569241
9185482

Australien Phone +61 3 9467 0800
Belgien/Luxemburg Phone +32 (0)2 466 55 66
Brasil Phone +55 11 5215-4900
Canada Phone +1 (905) 941-6780
Czech Republic Phone +420 2 57 91 18 50
China Phone +8621 6763 6966
Danmark Phone +45 45 82 64 00
Deutschland Phone +49 211 5301-301
España Phone +34 93 480 31 00
France Phone +33 1 64 62 35 00
Great Britain Phone +44 (0)127 831521
India Phone +91 22 -4033 8333
Israel Phone +972-4-6801000
Italia Phone +39 02 27 43 41
Japan Phone +81 (0)3 3358 1341
Magyarország Phone +36 1 711 2680
Niederlande Phone +31 (0)30 229 25 44

Osterreich Phone +43 (0)32 36 62 28 90
Norge Phone +47 07 51 50 00
Polska Phone +49 22 837 40 50
România Phone +40 356 171 120
Schweiz Phone +7 495 775 05 30
Slovenien Phone +41 41 619 29 39
Sverige Phone +46 6744 3732
Südkorea Phone +82 (0)47 69 990
South Africa Phone +27 11 472 3733
South Korea Phone +82 2 786 6321/4
Spain Phone +358 9 25 15 800
Sverige Phone +46 10 110 10 00
Taiwan Phone +886-2-2375-6288
Türkiye Phone +90 (216) 528 50 00
United Arab Emirates Phone +971 (0)4 8865 878
USA/Mexico Phone +1 (952) 941-6780

SICK AG, Erwin-Sick-Strasse 1, D-79183 Waldkirch

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

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ENGLISH

1. Physical layer

SIO Modus	no
Min Cycle Time	3000 µs
Baudrate	COM2
Process Data Length	16 Bit

2. Process data

Record -> DT_ProcessData: 2 Byte

Bitoffset		15 14 13 12 11 10 9 8															
Byte 0	Position (integer place)															1	0
Subindex	Unsigned Integer															1	0
Bitoffset		6 5 4 3 2 1 0															
Byte 1	Position (integer place)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Subindex	Unsigned Integer	6	5	4	3	2	1	0	reserved	reserved	reserved	reserved	reserved	reserved	reserved	reserved	reserved

Bitoffset		15 14 13 12 11 10 9 8															
Byte 0	Tstamp															1	0
Subindex	Integer															1	0

Bitoffset		7 6 5 4 3 2 1 0															
Byte 1	Tstamp	7	6	5	4	3	2	1	0								
Subindex	Integer	3	Boolean	2	Boolean											1	0

3. Service data

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Range	Remark
0 (0x00)	Direct Parameters 1	Record	16 Byte	ro			
1 (0x01)	Direct Parameters 2	Record	16 Byte	rw			
16 (0x10)	Vendor Name	String	16 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro	SICK AG		
18 (0x12)	Product Name	String	16 Byte	ro	MPA-575THTP0 B01		
19 (0x13)	Product ID	String	64 Byte	ro	1062570		
20 (0x14)	Product Text	String	64 Byte	ro	MPA-575THTP0 B01		
21 (0x15)	Serial Number	String	8 Byte	ro	12130001		
22 (0x16)	Hardware Version	String	5 Byte	ro	V0.01		
23 (0x17)	Firmware Version	String	5 Byte	ro	V2.00		
24 (0x18)	Application Specific Name	String	16 Byte	rw	SICK AG		
40 (0x28)	Process Data Input	PD In	2 Byte	ro			
41 (0x29)	Process Data Output	PD Out	2 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Range	Remark
110 (0x6E)	Pos_A_StartTimeMeasure	UInt	16 Bit	rw			in mm
111 (0x6F)	Pos_B_EndTimeMeasure	UInt	16 Bit	rw			in mm
112 (0x70)	TravelMeasurement	Record	2 Byte	ro			
1 (0x01)	MovingDirection	Bit (0)	1 Byte		0	true = B to A false = A to B	
2 (0x02)	reserved	Bit (1)	1 Byte		0	true = reserved false = reserved	
3 (0x03)	PistonTravelTime	Bit (2)	14 Bit		0		in s

System command				
Index dec (hex)		Access ¹	Value	Remark
2 (0x02)	System Command	wo	160	Teach_MeasuringRangeStart
			161	Teach_MeasuringRangeEnd
			162	Reset_MeasuringRange
			176	Reset Time Stamp Application

DEUTSCH

1. Physikalische Schicht

SIO Modus	nein
Min. Zykluszeit	3000 µs
Baudrate	COM2
Prozessdatenlänge	16 Bit

2. Prozessdaten

Record -> DT_ProcessData: 2 Byte

Bitoffset		15 14 13 12 11 10 9 8															
Byte 0	Position (Vorkomma-Stelle)															1	0
Subindex	Unsigned Integer															1	0
Bitoffset		6 5 4 3 2 1 0															
Byte 1	Position (Nachkomma-Stelle)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Subindex	Unsigned Integer	6	5	4	3	2	1	0	reserved	reserved	reserved	reserved	reserved	reserved	reserved	reserved	reserved

Bitoffset		15 14 13 12 11 10 9 8															
Byte 0	Tstamp															1	0
Subindex	Integer															1	0

Bitoffset		7 6 5 4 3 2 1 0															
Byte 1	Tstamp	7	6	5	4	3	2	1	0								
Subindex	Integer	3	Boolean	2	Boolean											1	0

3. Servicedaten

IO-Link spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung		
0 (0x00)	Direkte Parameter 1	Record	16 Byte	ro					
1 (0x01)	Direkte Parameter 2	Record	16 Byte	rw					
16 (0x10)	Herstellername	String	16 Byte	ro	SICK AG				
17 (0x11)	Hersteller text	String	64 Byte	ro	SICK AG				
18 (0x12)	Produktname	String	16 Byte	ro	MPA-575THTP0 B01				
19 (0x13)	Produkt-ID	String	64 Byte	ro	1062570				
20 (0x14)	Produkttext	String	64 Byte	ro	MPA-575THTP0 B01				
21 (0x15)	Seriennummer	String	8 Byte	ro	12130001				
22 (0x16)	Hardwareversion	String	5 Byte	ro	V0.01				
23 (0x17)	Firmwareversion	String	5 Byte	ro	V2.00				
24 (0x18)	Anwendungsspezifischer Name	String	16 Byte	rw	SICK AG				
40 (0x28)	Prozessdaten Eingang	PD In	2 Byte	ro					
41 (0x29)	Prozessdaten Ausgang	PD Out	2 Byte	ro					

SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung		
110 (0x6E)	Pos_A_StartTimeMeasure	UInt	16 Bit	rw			in mm		
111 (0x6F)	Pos_B_EndTimeMeasure	UInt	16 Bit	rw			in mm		
112 (0x70)	Zeitmessung	Record	2 Byte	ro					
1 (0x01)	Bewegungsrichtung	Bit (0)	1 Byte		0	true = B nach A false = A nach B			
2 (0x02)	reserved	Bit (1)	1 Byte		0	true = reserved false = reserved			
3 (0x03)	Kolbenhub-Dauer	Bit (2)	14 Bit		0		in s		

Systemkommando				
Index dez (hex)		Zugriff ¹	Wert	Bemerkung
2 (0x02)	Systemkommando	wo	160	Teach_MessbereichAnfang
			161	Teach_MessbereichEnde
			162	Reset_Messbereich
			176	Reset Time Stamp Applikation