

[\[Process Data\]](#)
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PT16907x

Vendor ID	780 (0x030c)	
Vendor Name	ipf electronic gmbh	
Vendor Text	www.ipf.de	
Vendor URL	http://www.ipf.de	
Device ID	1069314 (0x105102)	
DeviceFamily	PT16907x	
Features		
Block Parameter	yes	
Data Storage	yes	
Profile Characteristic	0x000d (Device Profile: ?Unknown?)	
Supported Access Locks	Parameter: no, Data Storage: yes, Local Parameterization: no, Local User Interface: no	
Communication		
IO-Link Revision	V1.1	
Transmission Rate	230400 bit/s (COM3)	
Minimum Cycle Time	1 ms	
SIO Mode Supported	yes	
M-Sequence Capability	PREOPERATE = TYPE_1_V with 8 octets on-request data OPERATE = TYPE_2_V with 2 octets on-request data ISDU supported	
Device Variant	PT169071	
Description	Photoelectric, Laser, analog, Connector M8	
Product ID	11245601	
Device Icon		
Device Symbol		
Connection Type	Non-standard connector	
Connection Description	M8-4 connector with analog output	
- pin 1	brown; L+; Power Supply	
- pin 2	white; Other; Analog Out	
- pin 3	(light) blue; L-; Power Supply	
- pin 4	black; C/Q; SIO/IO-Link	

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ProcessData id=P_ProcessData

ProcessDataIn "Process Data In" id=PI_ProcessDataIn

bit length: 48

data type: 48-bit Record (subindex access not supported)

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	16	32-bit Integer						Distance	
2	8	8-bit Integer						Scale	
7	3	Boolean						Alarm Output	
8	2	Boolean						Quality Bit	
10	0	Boolean						SSC1/Distance	

Octet 0

bit offset	47	46	45	44	43	42	41	40
subindex					1			
element bit	31	30	29	28	27	26	25	24

Octet 1

bit offset	39	38	37	36	35	34	33	32
subindex					1			

element bit	23	22	21	20	19	18	17	16
Octet 2								
bit offset	31	30	29	28	27	26	25	24
subindex	1							
element bit	15	14	13	12	11	10	9	8
Octet 3								
bit offset	23	22	21	20	19	18	17	16
subindex	1							
element bit	7	6	5	4	3	2	1	0
Octet 4								
bit offset	15	14	13	12	11	10	9	8
subindex	2							
element bit	7	6	5	4	3	2	1	0
Octet 5								
bit offset	7	6	5	4	3	2	1	0
subindex	/////	/////	/////	/////	7	8	/////	10

ProcessDataOut "Process Data Out" id=PO_ProcessDataOut

bit length: 2
data type: 2-bit Record (subindex access not supported)

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	1	Boolean						Find Me	
2	0	Boolean						Laser ON/OFF	
Octet 0									
bit offset	7	6	5	4	3	2	1	0	
subindex							1	2	

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Standard Variable "Direct Parameters 1" index=0 id=V_DirectParameters_1

data type: 128-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	120	8-bit UInteger			ro			Reserved	
2	112	8-bit UInteger			ro			Master Cycle Time	
3	104	8-bit UInteger			ro			Min Cycle Time	
4	96	8-bit UInteger			ro			M-Sequence Capability	
5	88	8-bit UInteger		17	ro			IO-Link Version ID	
6	80	8-bit UInteger			ro			Process Data Input Length	
7	72	8-bit UInteger			ro			Process Data Output Length	
8	64	8-bit UInteger			ro			Vendor ID 1	
9	56	8-bit UInteger			ro			Vendor ID 2	
10	48	8-bit UInteger			ro			Device ID 1	
11	40	8-bit UInteger			ro			Device ID 2	
12	32	8-bit UInteger			ro			Device ID 3	
13	24	8-bit UInteger			ro			Reserved	
14	16	8-bit UInteger			ro			Reserved	
15	8	8-bit UInteger			ro			Reserved	
16	0	8-bit	130 = Restore Factory		wo	X		Standard Command	

	UInteger	Settings						
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octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	1	2	3	4	5	6	7	8
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	9	10	11	12	13	14	15	16
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

Standard Variable "Direct Parameters 2" index=1 id=V_DirectParameters_2

data type: 128-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	120	8-bit UInteger						Device Specific Parameter 1	
2	112	8-bit UInteger						Device Specific Parameter 2	
3	104	8-bit UInteger						Device Specific Parameter 3	
4	96	8-bit UInteger						Device Specific Parameter 4	
5	88	8-bit UInteger						Device Specific Parameter 5	
6	80	8-bit UInteger						Device Specific Parameter 6	
7	72	8-bit UInteger						Device Specific Parameter 7	
8	64	8-bit UInteger						Device Specific Parameter 8	
9	56	8-bit UInteger						Device Specific Parameter 9	
10	48	8-bit UInteger						Device Specific Parameter 10	
11	40	8-bit UInteger						Device Specific Parameter 11	
12	32	8-bit UInteger						Device Specific Parameter 12	
13	24	8-bit UInteger						Device Specific Parameter 13	
14	16	8-bit UInteger						Device Specific Parameter 14	
15	8	8-bit UInteger						Device Specific Parameter 15	
16	0	8-bit UInteger						Device Specific Parameter 16	

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64
subindex	1	2	3	4	5	6	7	8
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	9	10	11	12	13	14	15	16
element bit	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0	7 - 0

Standard Variable "Standard Command" index=2 id=V_SystemCommand

data type: 8-bit UInteger

allowed values: 130 = Restore Factory Settings

access rights: wo

modifies other variables

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "Device Access Locks" index=12 id=V_DeviceAccessLocks

data type: 16-bit Record (subindex access not supported)

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Boolean						Parameter (write) Access Lock	
2	1	Boolean		false				Data Storage Lock	
3	2	Boolean						Local Parameterization Lock	
4	3	Boolean						Local User Interface Lock	

Octet 0

bit offset	15	14	13	12	11	10	9	8
subindex	/////	/////	/////	/////	/////	/////	/////	/////

Octet 1

bit offset	7	6	5	4	3	2	1	0
subindex	/////	/////	/////	/////	4	3	2	1

Standard Variable "Vendor Name" index=16 id=V_VendorName

data type: 64-octet String UTF-8

default value: "ipf electronic gmbh"

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Vendor Text" index=17 id=V_VendorText

data type: 64-octet String UTF-8

default value: "www.ipf.de"

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
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bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384
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octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Name" index=18 id=V_ProductName

data type: 64-octet String UTF-8
 default value: ""
 access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product ID" index=19 id=V_ProductID

data type: 64-octet String UTF-8
 default value: ""
 access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
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bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320
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octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Product Text" index=20 id=V_ProductText

data type: 64-octet String UTF-8

default value: "Photoelectric, Laser, analog, Connector M8"

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Serial Number" index=21 id=V_SerialNumber

data type: 16-octet String UTF-8

default value: ""

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	8	9	10	11	12	13	14	15
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Hardware Version" index=22 id=V_HardwareRevision

data type: 64-octet String UTF-8

default value: ""

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Firmware Version" index=23 id=V_FirmwareRevision

data type: 64-octet String UTF-8

default value: ""

access rights: ro

octet	0	1	2	3	4	5	6	7
bit offset	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456	455 - 448

octet	8	9	10	11	12	13	14	15
bit offset	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392	391 - 384

octet	16	17	18	19	20	21	22	23
bit offset	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328	327 - 320

octet	24	25	26	27	28	29	30	31
bit offset	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264	263 - 256

octet	32	33	34	35	36	37	38	39
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	40	41	42	43	44	45	46	47
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	48	49	50	51	52	53	54	55
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	56	57	58	59	60	61	62	63
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Application Specific Tag" index=24 id=V_ApplicationSpecificTag

data type: 32-octet String UTF-8

default value: ""

access rights: rw

octet	0	1	2	3	4	5	6	7
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bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192
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octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Standard Variable "Device Status" index=36 id=V_DeviceStatus

data type: 8-bit UInteger

allowed values: 0 = Device is OK, 1 = Maintenance required, 2 = Out of specification, 3 = Functional check, 4 = Failure, 5..255 = Reserved

access rights: ro

dynamic

octet	0	
bit offset	7 - 0	
element bit	7 - 0	

Standard Variable "Detailed Device Status" index=37 id=V_DetailedDeviceStatus

data type: Array[1] of 3-octet OctetString (subindex access not supported)

access rights: ro

dynamic

octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	

Standard Variable "Process Data Input" index=40 id=V_ProcessDataInput

data type: see ProcessDataIn!

access rights: ro

dynamic

Standard Variable "Process Data Output" index=41 id=V_ProcessDataOutput

data type: see ProcessDataOut!

access rights: ro

dynamic

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Variable "Function Tag" index=25 id=V_FunctionTag

description: User specified function tag

data type: 32-octet String UTF-8

default value: "****"

access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Location Tag" index=26 id=V_LocationTag

description: User specified location tag
data type: 32-octet String UTF-8
default value: "****"
access rights: rw

octet	0	1	2	3	4	5	6	7
bit offset	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200	199 - 192

octet	8	9	10	11	12	13	14	15
bit offset	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136	135 - 128

octet	16	17	18	19	20	21	22	23
bit offset	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72	71 - 64

octet	24	25	26	27	28	29	30	31
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0

Variable "SSC1 Param" index=60 id=V_SSC1_Setpoints

description: Switching Signal Channel Setpoints
data type: 64-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	Float32	-104..120	110				SP 1	Switching distance for Setpoint 1.
2	0	Float32	-104..120	26				SP 2	Switching distance for Setpoint 2. Setpoint 2 is only used in Config Mode 'Window'.

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "SSC1 Config" index=61 id=V_SSC1_Config

description: Switching Signal Channel Configuration
data type: 16-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	8	8-bit UInteger	0 = Active Low, 1 = Active High	1				Polarity	Selects the digital output polarity. It can be changed between 'active if object is present (active high)' or 'inactive if object is present (active low)'
2	0	8-bit UInteger	0 = Single Point, 1 = Window	1				Mode	Selects the SSC switch mode.

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	1	2	
element bit	7 - 0	7 - 0	

Variable "Exposure Reserve" index=64 id=V_ExposureReserve

description: Relative value representing the mount of light reflected by the target. Range from 0 to 100.
data type: 24-bit Record
access rights: ro
dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	8	16-bit UInteger						Exposure Reserve	
2	0	8-bit						Quality	Evaluation of the Exposure Reserve value and indication for

	UInteger					Level	the signal quality. 0: Signal ok, 1: Low Signal, 2: Critical Signal
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octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	1	1	2	
element bit	15 - 8	7 - 0	7 - 0	

Variable "Measurement Range" index=66 id=V_MeasurementRange

description: Range within the sensor returns a valid distance

data type: 64-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	32	Float32	16..120	16				Distance Near	Lower Limit of the measurement range
2	0	Float32	16..120	120				Distance Far	Upper Limit of the measurement range

octet	0	1	2	3	4	5	6	7
bit offset	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

Variable "Hysteresis" index=69 id=V_SSC_HysteresisSettings

description: Switching signal channel hysteresis settings

data type: 32-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	Float32	-104..104	0.3				SSC1 Width	Hysteresis width in [mm]

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	1	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Operation Mode" index=77 id=V_OperationMode

description: All different operation modes

data type: 48-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	40	8-bit UInteger	0 = Standard, 1 = High, 2 = Very High, 3 = Highest, 4 = Custom	3				Precision Filter	Selects the filter level to be applied.
3	32	8-bit UInteger	0 = Free Running, 2 = Interval	0				Sampling Mode	Selects if the sensor should measure as fast as possible (Free Running) or with a fixed measurement rate (Interval).
4	0	32-bit UInteger	250..50000	2000				Sampling Time	Interval time if sampling mode 'Interval' is selected.

octet	0	1	2	3	4	5	
bit offset	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	3	4	4	4	4	
element bit	7 - 0	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "DI/DO Settings" index=78 id=V_DIDOSettings

data type: 16-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	0	16-bit UInteger	100 = SSC1 - Switch State, 101 = SSC1 - Alarm	101				OUT1 Mode	Selects the function of the digital output (also includes the behaviour of the output indication LED).

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	2	
element bit	15 - 8	7 - 0	

Variable "Teach Lock Settings" index=80 id=V_TeachLockSettings

description: Teach lock settings

data type: 8-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	8-bit UInteger		5				Button Time Out	Time until teach button is locked. Teach button never locks if 0 and is always locked with 0xFF.

octet	0	
bit offset	7 - 0	
subindex	1	
element bit	7 - 0	

Variable "Measurement Values" index=88 id=V_MeasurementValues

description: Measurement Values

data type: 96-bit Record

access rights: ro

dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	Float32						PV1 Value	Distance [mm]
2	32	Float32						PV1 Rate	Measurement Rate
9	0	32-bit UInteger						PV1 Response Delay	Response Delay

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	9	9	9	9	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Teach Mode Settings" index=100 id=V_TeachModeSettings

description: Settings configuring the teach modes

data type: 8-bit Record (subindex access not supported)

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	8-bit UInteger	0 = XPert, 1 = XPress (Zero Position)	0				Local Teach Mode	Selects the teach mode (Teach button). XPert: zero position and analog output range, XPress: zero position

octet	0	
bit offset	7 - 0	
subindex	1	
element bit	7 - 0	

Variable "Zero Position" index=105 id=V_ZeroPosition

data type: 32-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	0	32-bit UInteger	0..120000	0				Zero Position	Shifting the zero position of the measured values in relation to the sensor front.

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	1	1	1	1	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "Analog Setting" index=116 id=V_AnalogSetting

description: Analog Setting as output type and output value in an alarm situation
data type: 24-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	16	8-bit UInteger	0 = 4..20 mA, 1 = 2..10 mA	0				Output Type	Selects the analog output range
4	0	16-bit UInteger	0 = Last Valid, 1 = Near, 2 = Far	1				Value after Dropout	Selection of the analog output behaviour after invalid measurements.

octet	0	1	2	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	2	4	4	
element bit	7 - 0	15 - 8	7 - 0	

Variable "Process Value Moving Average Filter" index=161 id=V_PV_MovAvgFilter

data type: 16-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	0	16-bit UInteger	1..256	256				Custom Moving Average Length	Length of the moving average filter if precision filter 'Custom' is selected.

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	2	
element bit	15 - 8	7 - 0	

Variable "Process Value Moving Median Filter" index=162 id=V_PV_MovMedianFilter

data type: 16-bit Record
access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	0	16-bit UInteger	1..21	21				Custom Moving Median Length	Length of the moving median filter if precision filter 'Custom' is selected.

octet	0	1	
bit offset	15 - 8	7 - 0	

subindex	2	2	
element bit	15 - 8	7 - 0	

Variable "Process Value Disruption Filter" index=164 id=V_PV_DisruptionFilter

description: Disruption filter inhibits short timed measurement value changes over a given time

data type: 16-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	0	16-bit UInteger	0..60000	0				Hold Time	Time span after an invalid measurement in which the outputs maintains there last valid values.

octet	0	1	
bit offset	15 - 8	7 - 0	
subindex	2	2	
element bit	15 - 8	7 - 0	

Variable "Analog Output" index=202 id=V_PV_2PointScaler

data type: 72-bit Record

access rights: rw

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	40	Float32	-104..120	16				Distance@Analog Min	Distance value in mm at the minimum value of the analog output
4	8	Float32	-104..120	120				Distance@Analog Max	Distance value in mm at the maximum value of the analog output
10	0	8-bit UInteger	0 = Not Inverted, 1 = Inverted	0				Output Characteristic	Indicates if the analog output is inverted.

octet	0	1	2	3	4	5	6	7
bit offset	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8
subindex	2	2	2	2	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	
bit offset	7 - 0	
subindex	10	
element bit	7 - 0	

Variable "Operation Time" index=211 id=V_OperationTime

data type: 96-bit Record

access rights: ro

dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	64	32-bit UInteger		0				Powerup	Operation time since power-up
2	32	32-bit UInteger		0				Resetable	Operation time (Resetable by user command)
3	0	32-bit UInteger		0				Lifetime	Lifetime operation time

octet	0	1	2	3	4	5	6	7
bit offset	95 - 88	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
subindex	3	3	3	3	

element bit	31 - 24	23 - 16	15 - 8	7 - 0	
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Variable "Distance Resetable Histogram" index=257 id=V_ProcessValue1ResetableHistogram

data type: 728-bit Record
access rights: ro
dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
2	712	16-bit Unsigned Integer	1010 = Meter, 1011 = Kilometer, 1012 = Centimeter, 1013 = Millimeter, 1014 = Micrometer, 1997 = None					Unit	Unit
3	680	32-bit Integer						Range Start	Start of range
4	648	32-bit Integer						Range End	End of range
5	640	8-bit Unsigned Integer						Nbr of Bins	Number of acquired bins
11	608	32-bit Unsigned Integer						Bin 1	Bin 1
12	576	32-bit Unsigned Integer						Bin 2	Bin 2
13	544	32-bit Unsigned Integer						Bin 3	Bin 3
14	512	32-bit Unsigned Integer						Bin 4	Bin 4
15	480	32-bit Unsigned Integer						Bin 5	Bin 5
16	448	32-bit Unsigned Integer						Bin 6	Bin 6
17	416	32-bit Unsigned Integer						Bin 7	Bin 7
18	384	32-bit Unsigned Integer						Bin 8	Bin 8
19	352	32-bit Unsigned Integer						Bin 9	Bin 9
20	320	32-bit Unsigned Integer						Bin 10	Bin 10
21	288	32-bit Unsigned Integer						Bin 11	Bin 11
22	256	32-bit Unsigned Integer						Bin 12	Bin 12
23	224	32-bit Unsigned Integer						Bin 13	Bin 13
24	192	32-bit Unsigned Integer						Bin 14	Bin 14
25	160	32-bit Unsigned Integer						Bin 15	Bin 15
26	128	32-bit Unsigned Integer						Bin 16	Bin 16
27	96	32-bit Unsigned Integer						Bin 17	Bin 17
28	64	32-bit Unsigned Integer						Bin 18	Bin 18
29	32	32-bit Unsigned Integer						Bin 19	Bin 19
30	0	32-bit Unsigned Integer						Bin 20	Bin 20

octet	0	1	2	3	4	5	6	7
bit offset	727 - 720	719 - 712	711 - 704	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664
subindex	2	2	3	3	3	3	4	4
element bit	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16

octet	8	9	10	11	12	13	14	15
bit offset	663 - 656	655 - 648	647 - 640	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600
subindex	4	4	5	11	11	11	11	12
element bit	15 - 8	7 - 0	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	16	17	18	19	20	21	22	23
bit offset	599 - 592	591 - 584	583 - 576	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536
subindex	12	12	12	13	13	13	13	14
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	24	25	26	27	28	29	30	31
bit offset	535 - 528	527 - 520	519 - 512	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472
subindex	14	14	14	15	15	15	15	16
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	32	33	34	35	36	37	38	39
bit offset	471 - 464	463 - 456	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408
subindex	16	16	16	17	17	17	17	18
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	40	41	42	43	44	45	46	47
bit offset	407 - 400	399 - 392	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344
subindex	18	18	18	19	19	19	19	20
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	48	49	50	51	52	53	54	55
bit offset	343 - 336	335 - 328	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280
subindex	20	20	20	21	21	21	21	22
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	56	57	58	59	60	61	62	63
bit offset	279 - 272	271 - 264	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216
subindex	22	22	22	23	23	23	23	24
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	64	65	66	67	68	69	70	71
bit offset	215 - 208	207 - 200	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152
subindex	24	24	24	25	25	25	25	26
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	72	73	74	75	76	77	78	79
bit offset	151 - 144	143 - 136	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88
subindex	26	26	26	27	27	27	27	28
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	80	81	82	83	84	85	86	87
bit offset	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24
subindex	28	28	28	29	29	29	29	30
element bit	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24

octet	88	89	90	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	30	30	30	
element bit	23 - 16	15 - 8	7 - 0	

Variable "Exposure Reserve Resetable Histogram" index=260
id=V_ProcessValue2ResetableHistogram

data type: 712-bit Record
access rights: ro
dynamic

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
3	680	32-bit UInteger						Range Start	Start of range
4	648	32-bit UInteger						Range End	End of range

5	640	8-bit UInteger						Nbr of Bins	Number of acquired bins
11	608	32-bit UInteger						Bin 1	Bin 1
12	576	32-bit UInteger						Bin 2	Bin 2
13	544	32-bit UInteger						Bin 3	Bin 3
14	512	32-bit UInteger						Bin 4	Bin 4
15	480	32-bit UInteger						Bin 5	Bin 5
16	448	32-bit UInteger						Bin 6	Bin 6
17	416	32-bit UInteger						Bin 7	Bin 7
18	384	32-bit UInteger						Bin 8	Bin 8
19	352	32-bit UInteger						Bin 9	Bin 9
20	320	32-bit UInteger						Bin 10	Bin 10
21	288	32-bit UInteger						Bin 11	Bin 11
22	256	32-bit UInteger						Bin 12	Bin 12
23	224	32-bit UInteger						Bin 13	Bin 13
24	192	32-bit UInteger						Bin 14	Bin 14
25	160	32-bit UInteger						Bin 15	Bin 15
26	128	32-bit UInteger						Bin 16	Bin 16
27	96	32-bit UInteger						Bin 17	Bin 17
28	64	32-bit UInteger						Bin 18	Bin 18
29	32	32-bit UInteger						Bin 19	Bin 19
30	0	32-bit UInteger						Bin 20	Bin 20

octet	0	1	2	3	4	5	6	7
bit offset	711 - 704	703 - 696	695 - 688	687 - 680	679 - 672	671 - 664	663 - 656	655 - 648
subindex	3	3	3	3	4	4	4	4
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	11	12	13	14	15
bit offset	647 - 640	639 - 632	631 - 624	623 - 616	615 - 608	607 - 600	599 - 592	591 - 584
subindex	5	11	11	11	11	12	12	12
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	16	17	18	19	20	21	22	23
bit offset	583 - 576	575 - 568	567 - 560	559 - 552	551 - 544	543 - 536	535 - 528	527 - 520
subindex	12	13	13	13	13	14	14	14
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	24	25	26	27	28	29	30	31
bit offset	519 - 512	511 - 504	503 - 496	495 - 488	487 - 480	479 - 472	471 - 464	463 - 456
subindex	14	15	15	15	15	16	16	16
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	32	33	34	35	36	37	38	39
bit offset	455 - 448	447 - 440	439 - 432	431 - 424	423 - 416	415 - 408	407 - 400	399 - 392
subindex	16	17	17	17	17	18	18	18
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	40	41	42	43	44	45	46	47
bit offset	391 - 384	383 - 376	375 - 368	367 - 360	359 - 352	351 - 344	343 - 336	335 - 328
subindex	18	19	19	19	19	20	20	20
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	48	49	50	51	52	53	54	55
bit offset	327 - 320	319 - 312	311 - 304	303 - 296	295 - 288	287 - 280	279 - 272	271 - 264
subindex	20	21	21	21	21	22	22	22
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	56	57	58	59	60	61	62	63
bit offset	263 - 256	255 - 248	247 - 240	239 - 232	231 - 224	223 - 216	215 - 208	207 - 200
subindex	22	23	23	23	23	24	24	24
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	64	65	66	67	68	69	70	71
bit offset	199 - 192	191 - 184	183 - 176	175 - 168	167 - 160	159 - 152	151 - 144	143 - 136
subindex	24	25	25	25	25	26	26	26
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	72	73	74	75	76	77	78	79
bit offset	135 - 128	127 - 120	119 - 112	111 - 104	103 - 96	95 - 88	87 - 80	79 - 72
subindex	26	27	27	27	27	28	28	28
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	80	81	82	83	84	85	86	87
bit offset	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24	23 - 16	15 - 8
subindex	28	29	29	29	29	30	30	30
element bit	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8

octet	88	
bit offset	7 - 0	
subindex	30	
element bit	7 - 0	

Variable "Non Standard Commands" index=1000 id=V_NonStandardCommands

description: Non Standard Commands

data type: 32-bit UInteger

allowed values: 1 = All Resettable Statistics Data Reset, 5 = Operation Resettable Data Reset, 16 = Distance Resettable Histogram Reset, 17 = Exposure Reserve Resettable Histogram Reset, 84 = Output Scale Distance at Analog Min, 85 = Output Scale Distance at Analog Max, 88 = Output Scale is set to the possible max, 208 = Zero Position Teach

access rights: wo

modifies other variables

octet	0	1	2	3	
bit offset	31 - 24	23 - 16	15 - 8	7 - 0	
element bit	31 - 24	23 - 16	15 - 8	7 - 0	

Variable "MDC Descriptor" index=16512 id=V_MdcDescriptor

data type: 88-bit Record

access rights: ro

subindex	bit offset	data type	allowed values	default value	acc. restr.	mod. other var.	excl. from DS	name	description
1	56	32-bit Integer						Lower Limit	Lower value of measuring range (considering the Zero Position offset).
2	24	32-bit Integer						Upper Limit	Upper value of measuring range (considering the Zero Position offset).
3	8	16-bit UInteger	1010 = Meter, 1011 = Kilometer, 1012 = Centimeter, 1013 = Millimeter, 1014 =					Unit Code	Indicates the unit of the selected MDC source

			Micrometer, 1997 = None						
4	0	8-bit Integer						Scale	Value of the exponent to the base of ten, applicable to the value of the MDC

octet	0	1	2	3	4	5	6	7
bit offset	87 - 80	79 - 72	71 - 64	63 - 56	55 - 48	47 - 40	39 - 32	31 - 24
subindex	1	1	1	1	2	2	2	2
element bit	31 - 24	23 - 16	15 - 8	7 - 0	31 - 24	23 - 16	15 - 8	7 - 0

octet	8	9	10	
bit offset	23 - 16	15 - 8	7 - 0	
subindex	3	3	4	
element bit	15 - 8	7 - 0	7 - 0	

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V_ProductText

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