Version: V1.0.3 Release Date: 2015-09-18

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KI

Vendor ID	310 / 0x0136 - Bytes: 01 54 / 0x01 0x36
Vendor Name	ifm electronic gmbh
Vendor Text	www.ifm.com
Vendor URL	http://www.ifm.com/ifmgb/web/io-link_down.htm
Device ID	388 / 0x000184 - Bytes: 00 01 132 / 0x00 0x01 0x84

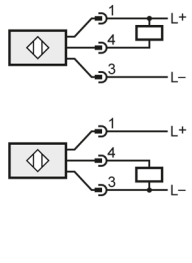
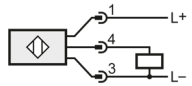
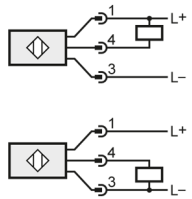
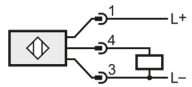
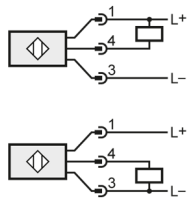
Communication

IO-Link Revision	V1.1
Bitrate	COM1
Minimum Cycle Time	100.800 ms
SIO Mode Supported	Yes

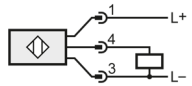
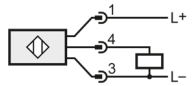
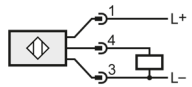
Features

Block parametrization	Yes
Data storage	Yes

Device Variant

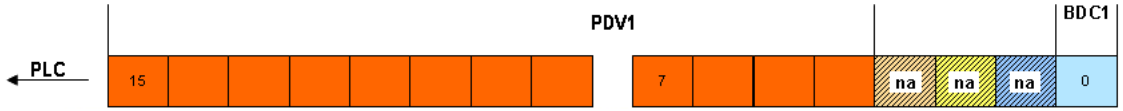
KI5082	Capacitive sensor. Connection: 1x open collector with automatic load detection (DC PNP or DC NPN); with M12 connector		
KI5083	Capacitive sensor. Connection: 1x open collector DC PNP; with M12 connector		
KI5084	Capacitive sensor. Connection: 1x open collector with automatic load detection (DC PNP or DC NPN); with M12 connector		
KI5085	Capacitive sensor. Connection: 1x open collector DC PNP; with M12 connector		
KI5086	Capacitive sensor. Connection: 1x open collector with automatic load detection (DC PNP or DC NPN); with M12 connector		

Device Variant

			
KI5087	Capacitive sensor. Connection: 1x open collector DC PNP; with M12 connector		
KI5090	Capacitive sensor. Connection: 1x open collector DC PNP; with M12 connector		
KI5097	Capacitive sensor. Connection: 1x open collector DC PNP; with M12 connector		

Process Data Total BitLength = 16
Process data input

Name	Description	Datatype	Bitoffset	Bitlength	Value Range	Gradient	Offset	Unit
Process value	Fig. PDV1. Current process value.	IntegerT	4	12	**0 to 1645**	1	0	
Switch state [OUT1]	Fig. BDC1. State depends on settings for BDC1.	BooleanT	0		(false) inactive (true) active			



Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Standard Command		**2**	**Sub 0**	**UIntegerT**	**8 Bit**	**wo**		(130) Restore Factory Settings (65) Teach empty state (75) Teach full state (76) Adjustment teach empty state (240) Command triggers Event 8DFE to appear (241) Command triggers Event 8DFE to disappear (242) Command triggers Event 8DFF to appear (243) Command triggers Event 8DFF to disappear			
Device Access Locks		**12**	**Sub 0**	**RecordT**	**16 Bit**	**rw**					
Data Storage			bitOffs 1	BooleanT	1 Bit		(0)	(false) Unlocked (true) Locked			
Local Parameterization			bitOffs 2	BooleanT	1 Bit		(0)	false Unlocked true Locked			
Vendor Name		**16**	**Sub 0**		**max 32 Byte**	**ro**	**ifm electronic gmbh**				
Vendor Text		**17**	**Sub 0**		**max 32 Byte**	**ro**	**www.ifm.com**				
Product Name		**18**	**Sub 0**		**max 32**	**ro**					

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
					Byte						
Product ID		**19**	**Sub 0**		**max 32 Byte**	**ro**					
Product Text		**20**	**Sub 0**		**max 32 Byte**	**ro**	**Capacitive Sensor**				
Hardware Version		**22**	**Sub 0**		**max 32 Byte**	**ro**					
Firmware Version		**23**	**Sub 0**		**max 16 Byte**	**ro**					
Application Specific Tag		**24**	**Sub 0**		**max 16 Byte**	**rw**	***				
TeachIn Channel		**58**	**Sub 0**	**UIntegerT**	**8 Bit**	**rw**	**(1) BDC1**	(1) BDC1			
TeachIn Status		**59**	**Sub 0**	**UIntegerT**	**8 Bit**	**ro**		**0 to 255**			
SP	**Smart Sensor Profile: BDC1 Switchpoints**	**60**		**RecordT**	**32 Bit**	**rw**					
Switch Point 1			Sub 1	UIntegerT	16 Bit		()	0 to 1645	1	0	
Switch Point 2			Sub 2	UIntegerT	16 Bit		(0) (not used)	(0) (not used)			
SP	**Smart Sensor Profile: BDC1 Switchpoint configuration**	**61**		**RecordT**	**32 Bit**	**rw**					
Switchpoint Logic			Sub 1	UIntegerT	8 Bit		()	(0) closing contact (1) break contact			
Switchpoint Mode			Sub 2	UIntegerT	8 Bit		(1) Single Point	(1) Single Point			
Switchpoint Hysteresis			Sub 3	UIntegerT	16 Bit		(18)	0 to 1645 0 to 1645	1	0	
ProcessData limits	**Process data limit values**	**64**		**RecordT**	**32 Bit**	**ro**					
Min			Sub 1	UIntegerT	16 Bit		(0)		1	0	
Max			Sub 2	UIntegerT	16 Bit		(1645)		1	0	

Variables

Name	Description	Index	Subindex bitOffset	DataType	Length	Access Rights	Default	Value Range	Gradient	Offset	Unit
Teach values	**Values from/for teaching procedure**	**72**		**RecordT**	**32 Bit**	**ro**					
ON			Sub 1	UIntegerT	16 Bit		()	0 to 1645	1	0	
OFF			Sub 2	UIntegerT	16 Bit		()	0 to 1645	1	0	
dAP	**Damping process value, takes effect on switching output (100 ms steps)**	**74**	**Sub 0**	**UIntegerT**	**16 Bit**	**rw**	**0**	**0 to 2000**	**1**	**0**	**ms**
dS	**Switch-On delay**	**76**	**Sub 0**	**UIntegerT**	**16 Bit**	**rw**	**0**	**0 to 3600**	**1**	**0**	**s**
dr	**Switch-Off delay**	**78**	**Sub 0**	**UIntegerT**	**16 Bit**	**rw**	**0**	**0 to 3600**	**1**	**0**	**s**
Keylock		**100**	**Sub 0**	**UIntegerT**	**8 Bit**	**rw**	**(1) unlocked**	(0) locked (1) unlocked			

Events

Code	Name	Type	Description
36350 d / 8D FE h	Test Event 1	Warning	Event appears by setting index 2 to value 240, Event disappears by setting index 2 to value 241
36351 d / 8D FF h	Test Event 2	Warning	Event appears by setting index 2 to value 242, Event disappears by setting index 2 to value 243