



Item	Default setting	Description
PRO1 mode	Response time setting	5PEd5td Set response time.
	Timer setting	dELY nan Set operation and period of the timer.
	Hysteresis setting	HYSH-D2 Hysteresis can be set when the normal mode or the window comparator mode is selected. When setting to "H-D 1", it becomes low sensibility.
	Shift amount setting	5HFL ---P Set shift amount of threshold value in limit teaching.
	Emission power setting	PcEL H-P Set emission power. "Rud": Saturated incident light intensity can be automatically adjusted "H-P": High emission power (25 to 100%) "h-p": Middle emission power (25 to 100%) "L-P": Low emission power (25 to 100%)
Timer range setting	ERN9 n5 Change unit time of timer.	
Teaching lock setting	t-Lc aFF Be able to prevent from wrong operation of teaching. "aFF": Teaching mode is valid "an": Teaching mode is invalid	
Digital display item setting	d1SPd19t Incident light intensity can be displayed in percentage or the peak / bottom value can be displayed on the digital display (red).	
Digital display turning on setting	turn aFF Sets the viewing orientation of the digital display.	
PRO2 mode	ECO setting	ECO aFF Power consumption can be lowered. "aFF": ECO OFF "an": If any key operation is not carried out for 20 sec. in RUN mode, the digital display turns OFF. "FULT": If key operation is not done in 20 sec. or setting the key lock function in Run mode, all indicators turns OFF.
	Period hold setting	Hold aFF "aFF": Peak / bottom value in the digital display refreshing condition can be displayed. "an": Peak / bottom value in the hold condition can be displayed.
PRO3 mode	Data bank loading setting	chlD ldc / RDG D VHWLQJ IURP VSHFLzHG GDWD EDQN (1 to 8 channel)
	Data bank saving setting	chSR ldc 6DYH D VHWLQJ WR VSHFLzHG GDWD EDQN WR FKDQQHOC
	Back up setting	b.uP an Select to save or not to save the threshold value by teaching in EEPROM.
Input / output setting ( ) ; ( ' only)	l.D out Select either sensing output 2 or external output.	
PRO4 mode	Copy setting	— Using optical communications, be able to copy set-WLQJ FRQWHQWV LQ PDLQ DPSOLzHU WR DOO RI WKH VXE DPSOLzHU V FRQQHFHWHG IURP WKH PDLQ DPSOLzHU ; ' cannot send or receive threshold value when conducting copy.
	Copy action setting	LRct dRdd Copy of items in display adjustment setting and incident light intensity are conducted or canceled by using optical communication. In case incident light intensity does not have enough margin, automatically set optimum value. "dRdd": LVSOOGM XVVPHQW RI PDLQ DPSOLzHU DQG VXE DPSOLzHU V FDQ EH FRQGXFWHG Set to the target value of display adjustment PHQW LQ HDFK DPSOLzHU "dLPY": Incident light intensity of main amplifier FDQ EH FRSLHG WR VXE DPSOLzHU when the difference between main amplifier HU DQG VXE DPSOLzHU copied. "RdaF": Display adjust of main and sub amplifier can be set to OFF. Do not press down the SET key many times when display is "RdaF". When "RdaF" is not displayed in confirmation, also do not press down set key many times.
PRO5 mode	Copy lock setting	t-Lc aFF When conducting the setting of copy setting or data EDQN ORDGLQJ VDYLQJ IURP WKH PDLQ DPSOLzHU communications, it is possible that only the sub DPSOLzHU ZKLFK LV VHW LWR ORFN 213 does not receive the set contents. However, even if copy lock ON " is set, the copy action setting is communicated.
	Communication protocol setting	t.Pr H.Pr When conducting the copy setting or setting of data EDQN ORDGLQJ VDYLQJ IURP WKH PDLQ DPSOLzHU YLD RSWLFDOR communications, the optical communications through D VXE DPSOLzHU ZKLFK LV VHW WR FRPPXQLFDWLRQ HPLVVLRQ halt "t.Pr aFF" DQG WKH IROORZLQJ VXE DPSOLzHU V FDQ be halted.
PRO6 mode	External input setting (Only ( ) ; ( ' & )	lnPt 5ELF Set external input.
	Code setting	00300020 Consistent setting can be done by inputting 8-digit code instead of independent setting. . Q DGLWLRQ SUHVHQW VHWLQJ FDQ EH FRQzUPHG
PRO6 mode	Display adjustment setting	dRdd aFF Set incident light intensity to target value. If conducting display adjustment setting when incident light intensity does not have enough margin, "DUER" is blinked "aFF": Display adjustment OFF "5EL": Slide to (smaller side) incident light intensity from the set of target setting. "t5EL": Set incident light intensity to value you want (negative side). In case setting to 0-adjustment, set to 0.
	Reset setting	— If setting to "4E5," returns to default settings (factory settings).
	CUSTOM setting	t.u5t 5PEd Select an item in CUSTOM mode to display.

Item	Default setting	Description
PRO5 mode	Interference prevention setting	lnPr iP- i Number of adherence mounting of sensor head depends on response time of interference prevention function. "iP- i": Set when using the interference prevention function by optical communication. Maximum adherence mounting of sensor head is 12 units "iP-F": Set when using interference prevention function by changing emitting frequency. The maximum adherence mounting by setting 3 types of emission frequency is 3 units.
	Sensing output mode	Prab . . f - Set sensing output 1 mode and sensing output 2 mode. " . . f - " (Normal mode) • Sets a threshold value for ON / OFF operation. " . f 7 . " : Window comparator mode (Except sensing output 2 of ) ; ( ' & ) • Sets two threshold values and judges they are within the required range or not. This can be selected in 1 / 2 / 3-point teaching. " d . f " (Rising differential mode) • Only drastic rises in incident light intensity are detected. " d 7 . " (Trailing differential mode) • Only drastic drops in incident light intensity are detected. " H . f " (Hysteresis mode) • Changes hysteresis to ignore small change of incident light intensity. • This can be selected in 1 / 2 / 3-point teaching. " 5ELF " (Self diagnosis output mode) (Only displayed in ) ; ( ' ) ; ( ' & but ex-) cept sensing output 1. • Conduct self diagnosis output " Rn5 " (Answer back output mode) (Only displayed in ) ; ( ' but except sensing out1) • Conduct Answer back output toward external input. " an " : Forced ON output mode • Sets forcibly the output to ON. " aFF " : Forced OFF output mode • Sets forcibly the output to OFF.
PRO6 mode	Logical operation setting	La9cn5En Select for logical operation and set logical operation methods (and, or, xor). "n5En": Logical operation is sensing output 1 of this device and conduct logical operation between the sensing output 1 and sensing output 1 of this device. 7K#DOFXODWLRQ UHVXOW RI XSS); &RGH VHWLQJ and this product is output from the sensing output 1 of this product. "E- ln": Logical operation is sensing output 1 of DQ XSSHU DGMDFHQW DPSOLzHU logical operation between the sensing output and sensing output 1 of this device. (Only displayed in ) ; ( ' ) ; ( ' & ) "5ELF": Logical operation is outer input and conduct logical operation between the output and sensing output 1 of this device. (Only displayed in ) ; ( ' ) ; ( ' & )
	Setting of threshold value tracking	t4cl aFF This mode can change the threshold value depending on the cycle (1 to 9,999 sec.) that is set with the variations of the incident light intensity. The tracking shift amount is the one which is set at the shift setting.
PRO7 mode	Sensing output timing	LRSE aFF Selects whether tracking threshold when the output is OFF or when the output is ON.
	Storage cycle setting	rEc aFF Selects a threshold storage cycle in EEPROM from 1 to 250 times.
PRO7 mode	Algorithm setting	Rl9 5HFL When setting to limit teaching, threshold value is followed up on the bases of shift amount. Furthermore, when setting to auto teaching, threshold value be followed up on the bases of each cycle.
	Setting of logical operations	Logical operation and Setting of logical operations and or xor ON ON ON ON OFF ON OFF OFF ON ON OFF ON OFF ON ON OFF OFF OFF OFF OFF

); ' &RGH VHWLQJ WDEOH							
Code	Forth digit		Code	Third digit		Code	First digit
	Sensing output operation mode	Timer operation		Timer period	Timer period		
0	Light-ON	0	No timer	0	0.5ms	0	Response time setting
1	Dark-ON	1	OFD	1	1ms	1	Emission power setting
2	—	2	OND	2	3ms	2	Hysteresis setting
3	—	3	ONOF	3	5ms	3	—
4	—	4	OSD	4	10ms	4	—
5	—	5	ONOS	5	30ms	5	—
6	—	6	—	6	50ms	6	—
7	—	7	—	7	100ms	7	—
8	—	8	—	8	300ms	8	—
9	—	9	—	9	500ms	9	—
R	—	R	—	R	1 sec.	R	—
b	—	b	—	b	2 sec.	b	—
l	—	l	—	l	3 sec.	l	—
d	—	d	—	d	4 sec.	d	—
E	—	E	—	E	5 sec.	E	—

(OFD: OFF-delay timer, OND: ON-delay timer, ONOF: ON / OFF-delay timer, OSD: One-shot timer)  
(ONOS: ON-delay / One-shot timer)

); ' &RGH VHWLQJ WDEOH									
Code	Forth digit		Code	Third digit		Code	First digit		
	Copy lock setting	Hysteresis setting		Setting items in digital display setting	Back up setting			Response time setting	Sensing output setting
0	Copy lock OFF	H-02	0	Incident light intensity	Back up ON	0	H-SP	0	Normal mode
1	Copy lock ON	H-02	1	Incident light intensity	Back up OFF	1	FAST	1	WC mode
2	Copy lock OFF	H-03	2	Displayed in percentage	Back up ON	2	STD	2	Rising differential mode
3	Copy lock ON	H-03	3	Displayed in percentage	Back up OFF	3	LONG	3	Trailing differential mode
4	Copy lock OFF	H-01	4	Peak / bottom value	Back up ON	4	U-LG	4	HYS mode
5	Copy lock ON	H-01	5	Peak / bottom value	Back up OFF	5	HYPR	5	—

(WC mode: Window comparator mode, HYS mode: Hysteresis mode)

); ' &RGH VHWLQJ WDEOH								
Code	Forth digit		Code	Third digit		Code	First digit	
	Sensing output 1	Sensing output 2		Timer operation	Timer period			CUSTOM setting
0	Light-ON	Light-ON	0	No timer	0	0.5ms	0	Response time setting
1	Light-ON	Dark-ON	1	OFD	1	1ms	1	Emission power setting
2	Dark-ON	Light-ON	2	OND	2	3ms	2	Hysteresis setting
3	Dark-ON	Dark-ON	3	ONOF	3	5ms	3	—
4	—	—	4	OSD	4	10ms	4	—
5	—	—	5	ONOS	5	30ms	5	—
6	—	—	6	—	6	50ms	6	—
7	—	—	7	—	7	100ms	7	—
8	—	—	8	—	8	300ms	8	—
9	—	—	9	—	9	500ms	9	—
R	—	—	R	—	R	1 sec.	R	—
b	—	—	b	—	b	2 sec.	b	—
l	—	—	l	—	l	3 sec.	l	—
d	—	—	d	—	d	4 sec.	d	—
E	—	—	E	—	E	5 sec.	E	—

(OFD: OFF-delay timer, OND: ON-delay timer, ONOF: ON / OFF-delay timer, OSD: One-shot timer)  
(ONOS: ON-delay / One-shot timer)

); ' &RGH VHWLQJ WDEOH									
Code	Forth digit		Code	Third digit		Code	First digit		
	Copy lock setting	Hysteresis setting		Setting items in digital display setting	Back up setting			Response time setting	Sensing output setting (Note)
0	Copy lock OFF	H-02	0	Incident light intensity	Back up ON	0	H-SP	0	Normal mode
1	Copy lock ON	H-02	1	Incident light intensity	Back up OFF	1	FAST	1	WC mode
2	Copy lock OFF	H-03	2	Displayed in percentage	Back up ON	2	STD	2	Rising differential mode
3	Copy lock ON	H-03	3	Displayed in percentage	Back up OFF	3	LONG	3	Trailing differential mode
4	Copy lock OFF	H-01	4	Peak / bottom value	Back up ON	4	U-LG	4	HYS mode
5	Copy lock ON	H-01	5	Peak / bottom value	Back up OFF	5	HYPR	5	—

(WC mode: Window comparator mode, HYS mode: Hysteresis mode)  
Note: It is a setting only for sensing output 1. Sensing output 2 cannot be set.

); ' &RGH VHWLQJ WDEOH									
Code	Forth digit		Code	Third digit		Code	Second digit	First digit	
	Sensing output operation mode	Sensing output 2		Timer operation	Sensing output 2				Timer period
0	Light-ON	Light-ON	0	No timer	No timer	0	0.5ms	0	Response time setting
1	Light-ON	Dark-ON	1	OFD	No timer	1	1ms	1	Emission power setting
2	Dark-ON	Light-ON	2	OND	No timer	2	3ms	2	Hysteresis setting
3	Dark-ON	Dark-ON	3	ONOF	No timer	3	5ms	3	—
4	—	—	4	OSD	No timer	4	10ms	4	—
5	—	—	5	ONOS	No timer	5	30ms	5	—
6	—	—	6	No timer	OFD	6	50ms	6	—
7	—	—	7	No timer	OND	7	100ms	7	—
8	—	—	8	No timer	OSD	8	300ms	8	—
9	—	—	9	—	—	9	500ms	9	—
R	—	—	R	—	—	R	1 sec.	R	—
b	—	—	b	—	—	b	2 sec.	b	—
l	—	—	l	—	—	l	3 sec.	l	—
d	—	—	d	—	—	d	4 sec.	d	—
E	—	—	E	—	—	E	5 sec.	E	—

(OFD: OFF-delay timer, OND: ON-delay timer, ONOF: ON / OFF-delay timer, OSD: One-shot timer)  
(ONOS: ON-delay / One-shot timer)

); ' &RGH VHWLQJ WDEOH									
Code	Forth digit		Code	Third digit		Code	Second digit	First digit	
	Copy lock setting	Hysteresis setting		Setting items in digital display setting	Back up setting				Response time setting
0	Copy lock OFF	H-02	0	Incident light intensity	Back up ON	0	H-SP	0	Normal mode
1	Copy lock ON	H-02	1	Incident light intensity	Back up OFF	1	FAST	1	Normal mode
2	Copy lock OFF	H-03	2	Displayed in percentage	Back up ON	2	STD	2	Rising differential mode
3	Copy lock ON	H-03	3	Displayed in percentage	Back up OFF	3	LONG	3	Normal mode
4	Copy lock OFF	H-01	4	Peak / bottom value	Back up ON	4	U-LG	4	Normal mode
5	Copy lock ON	H-01	5	Peak / bottom value	Back up OFF	5	HYPR	5	Normal mode
6	—	—	6	—	—	6	—	6	WC mode
7	—	—	7	—	—	7	—	7	WC mode
8	—	—	8	—	—	8	—	8	Rising differential mode
9	—	—	9	—	—	9	—	9	HYS mode

(WC mode: Window comparator mode, HYS mode: Hysteresis mode)