

# KEYENCE

## KV-L20V/700/1000/3000/5000/7500/8000/Nano

### Series

Supported series: KV-L20V, 700, 1000, 3000, 5000, 7500, 8000 series, KV Nano series

Website: <http://www.keyence.com/>

### HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	KEYENCE KV-L20V/700/1000/3000/5000/7500/8000/Nano Series		
PLC I/F	RS232	RS232,RS485 2W,RS485 4W	
Baud rate	115200	9600 ~ 115200	
Data bits	8		
Parity	Even		
Stop bits	1		
PLC sta. no.	0		

Online simulator	YES	Extend address mode	NO
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### PLC Setting:

Communication mode	KV mode (host link)
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### Device Address:

Bit/Word	Device type	Format	Range	Memo
B	MR	DDDDdd	0 ~ 399915	Intenal auxiliary relay
B	LR	DDDdd	0 ~ 99915	Latch relay
B	CR	DDDdd	0 ~ 99915	Control relay
B	R	DDDDdd	0 ~ 199915	Relay
B	B	HHHh	0 ~ 7FFF	Link relay
B	T_Bit	DDDD	0 ~ 9999	Timer
B	C_Bit	DDDD	0 ~ 9999	Counter
B	DM_Bit	DDDDDDdd	0 ~ 6553515	Data memory bit
B	TM_Bit	DDDDdd	0 ~ 999915	Temporary data memory bit
B	CM_Bit	DDDDDDdd	0 ~ 6553515	Control memory bit

Bit/Word	Device type	Format	Range	Memo
B	EM_Bit	DDDDDDdd	0 ~ 6553515	Data memory
B	FM_Bit	DDDDDDdd	0 ~ 52428715	File register bit
B	CTC_Bit	D	0 ~ 7	
B	ZF_Bit	DDDDDDdd	0 ~ 52428715	File register (SQ)
B	W_Bit	HHHHh	0 ~ 7FFFF	Link register bit
B	W_Bit_Dec	HHHHdd	0 ~ 7FFF15	
B	VM_Bit	DDDDDDdd	0 ~ 6553515	
B	VB_Bit	HHHHh	0 ~ F9FF	
W	DM	DDDDD	0 ~ 65535	Data memory
W	TM	DDDD	0 ~ 9999	Temporary data memory
W	W	HHHH	0 ~ 7FFF	Link register
W	VM	DDDDD	0 ~ 65535	
W	CM	DDDDD	0 ~ 65535	Control memory
W	EM	DDDDD	0 ~ 65535	Data memory
W	FM	DDDDDD	0 ~ 524287	File register
W	MR_Word	DDDD	0 ~ 3999	Intenal auxiliary relay
W	LR_Word	DDD	0 ~ 999	Latch relay
W	CR_Word	DDD	0 ~ 999	Control relay
W	ZF	DDDDDD	0 ~ 524287	File register (SQ)
W	VB	HHH	0 ~ F9F	
W	R_Word	DDDD	0 ~ 1999	Relay
W	B_Word	HHH	0 ~ 7FF	Link relay
W	T	DDDD	0 ~ 9999	Timer
W	C	DDDD	0 ~ 9999	Counter
W	T_Curr	DDDD	0 ~ 9999	Timer current
W	T_Preset	DDDD	0 ~ 9999	Timer preset
W	C_Curr	DDDD	0 ~ 9999	Counter current
W	C_Preset	DDDD	0 ~ 9999	Counter preset
W	TRM	D	0 ~ 7	
W	Z	DD	1 ~ 12	
W	CTH	D	0 ~ 3	
W	CTC	D	0 ~ 7	

## Wiring Diagram:

OP-26486 RS232 (Diagram 1 ~ Diagram 3)

### Diagram 1

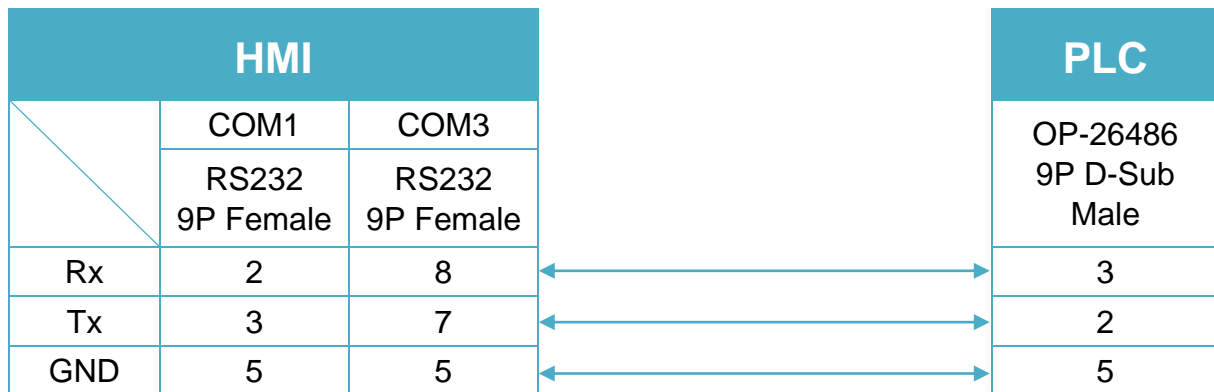
**cMT Series**                      *cMT3071 / cMT3072 / cMT3090 / cMT3103 / cMT3151*

**eMT Series**                      *eMT3070 / eMT3105 / eMT3120 / eMT3150*

**MT-iE**                              *MT8073iE / MT8102iE*

**MT-XE**                              *MT8092XE*

**MT-iP**                                *MT6103iP / MT8102iP*



## Diagram 2

<b>cMT Series</b>	<i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</i>
<b>mTV</b>	<i>mTV</i>
<b>MT-iE</b>	<i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i>
<b>MT-XE</b>	<i>MT8121XE / MT8150XE / MT8090XE</i>



## Diagram 3

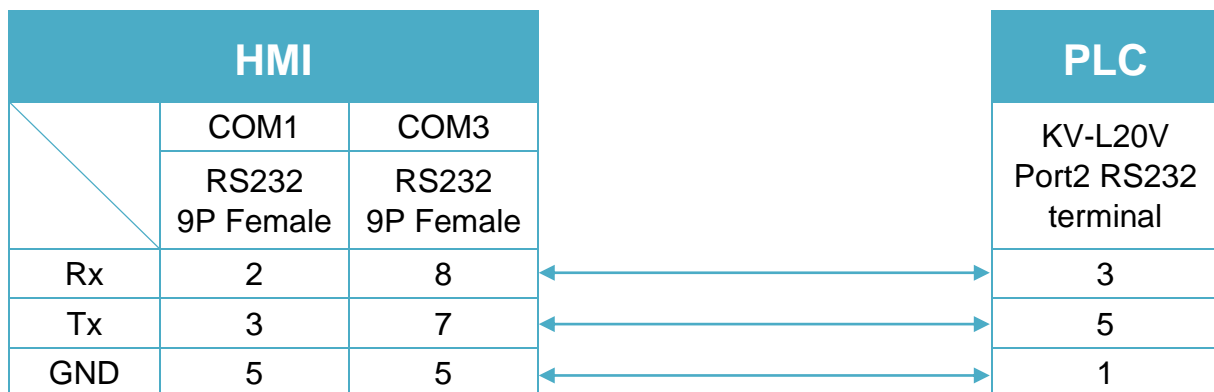
<b>MT-iE</b>	<i>MT8050iE / MT8053iE</i>
<b>MT-iP</b>	<i>MT6051iP / MT8051iP / MT6071iP / MT8071iP</i>



KV-L20V Port2 RS232 terminal (Diagram 4 ~ Diagram 6)

### Diagram 4

<b>cMT Series</b>	<b><i>cMT3071 / cMT3072 / cMT3090 / cMT3103 / cMT3151</i></b>
<b>eMT Series</b>	<b><i>eMT3070 / eMT3105 / eMT3120 / eMT3150</i></b>
<b>MT-iE</b>	<b><i>MT8073iE / MT8102iE</i></b>
<b>MT-XE</b>	<b><i>MT8092XE</i></b>
<b>MT-iP</b>	<b><i>MT6103iP / MT8102iP</i></b>



### Diagram 5

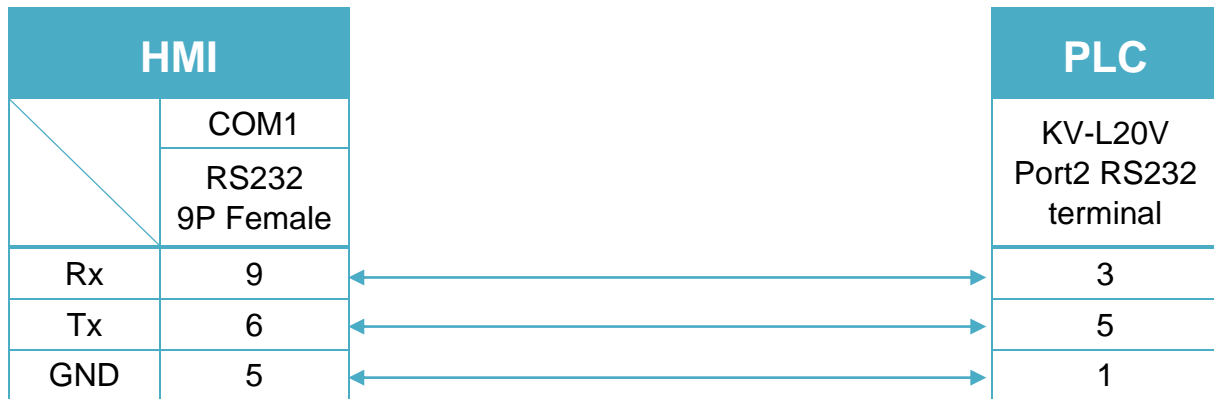
<b>cMT Series</b>	<b><i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</i></b>
<b>mTV</b>	<b><i>mTV</i></b>
<b>MT-iE</b>	<b><i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i></b>
<b>MT-XE</b>	<b><i>MT8121XE / MT8150XE / MT8090XE</i></b>



## Diagram 6

**MT-iE** *MT8050iE / MT8053iE*

**MT-iP** *MT6051iP / MT8051iP / MT6071iP / MT8071iP*

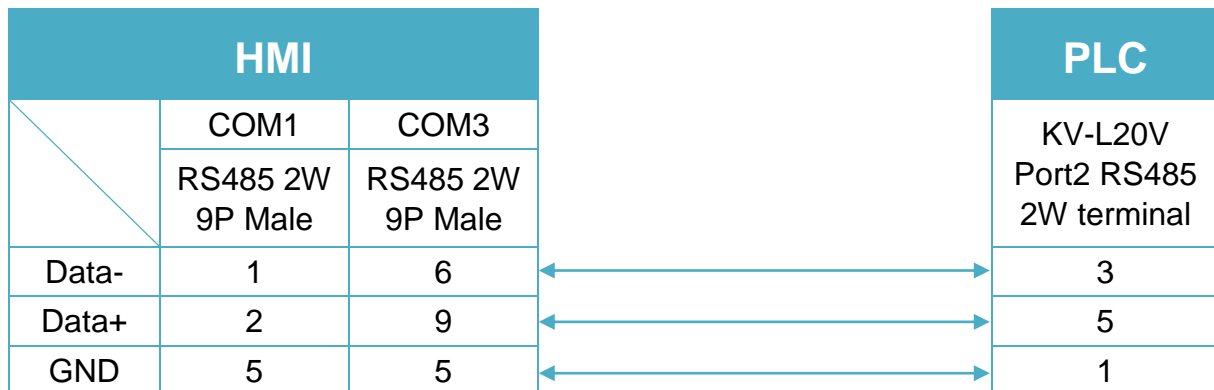


KV-L20V Port2 RS485 2W terminal (Diagram 7 ~ Diagram 12)

## Diagram 7

**cMT Series** *cMT3151*

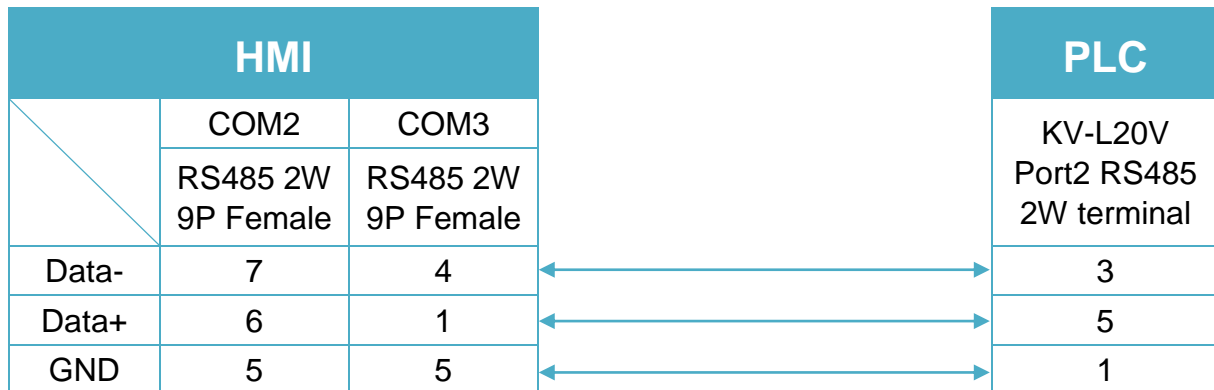
**eMT Series** *eMT3070/ eMT3105 / eMT3120 / eMT3150*



## Diagram 8

**cMT Series**                      *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*

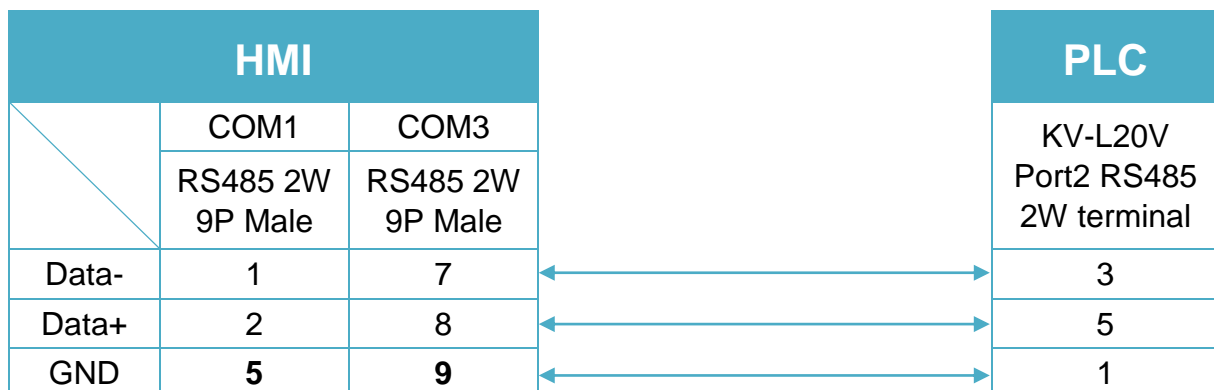
**mTV**                                *mTV*



## Diagram 9

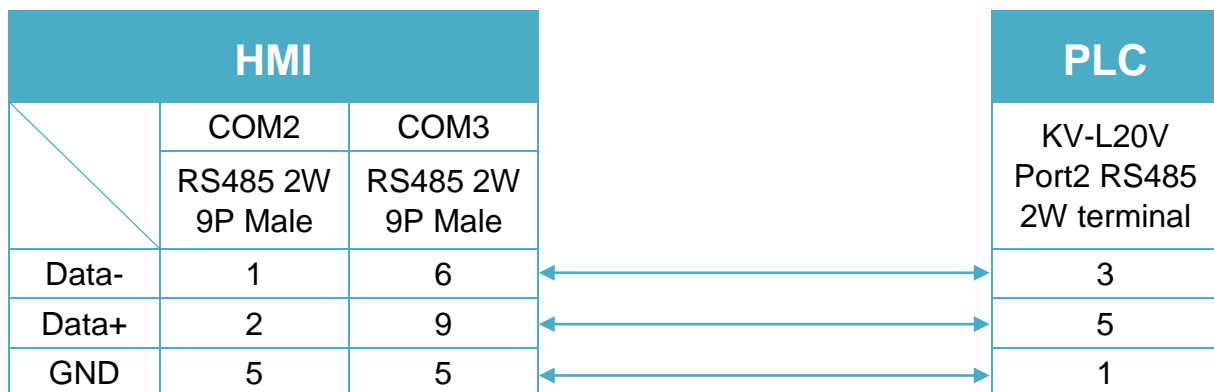
**MT-iE**                                *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

**MT-XE**                                *MT8121XE / MT8150XE*



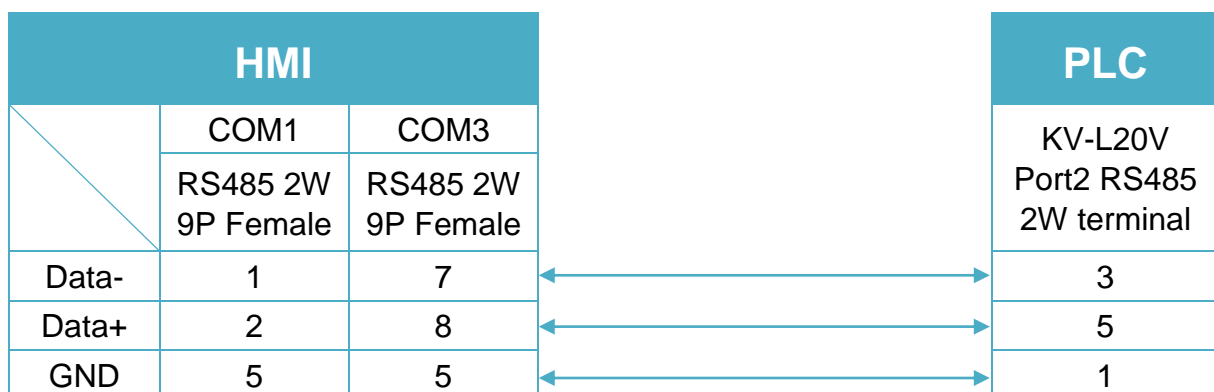
## Diagram 10

<b>cMT Series</b>	<b><i>cMT3071 / cMT3072 / cMT3090 / cMT3103</i></b>
<b>MT-iE</b>	<b><i>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i></b>
<b>MT-XE</b>	<b><i>MT8090XE / MT8092XE</i></b>
<b>MT-iP</b>	<b><i>MT6103iP / MT8102iP</i></b>



## Diagram 11

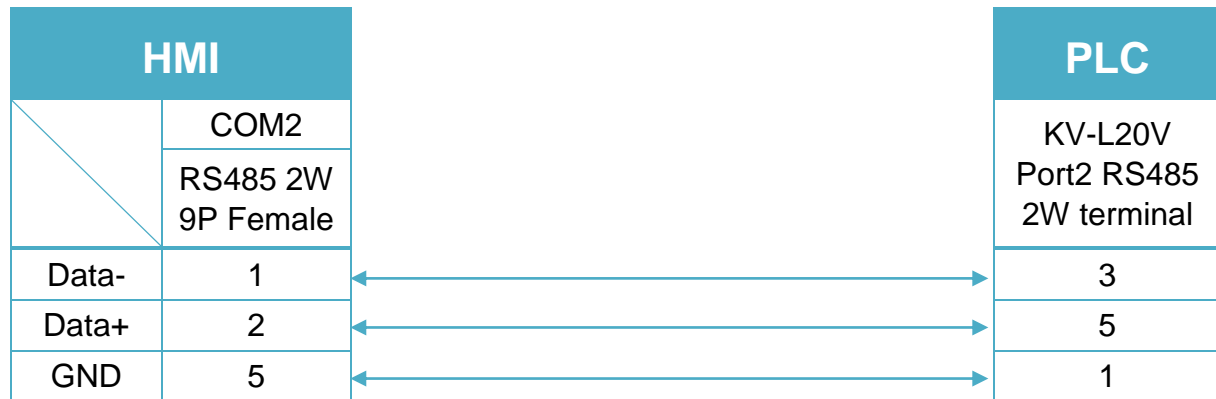
<b>MT-iE</b>	<b><i>MT8050iE / MT8053iE</i></b>
<b>MT-iP</b>	<b><i>MT6051iP / MT8051iP</i></b>





## Diagram 12

**MT-iP** *MT6071iP / MT8071iP*



KV-L20V Port2 RS485 4W terminal (Diagram 13 ~ Diagram 16)

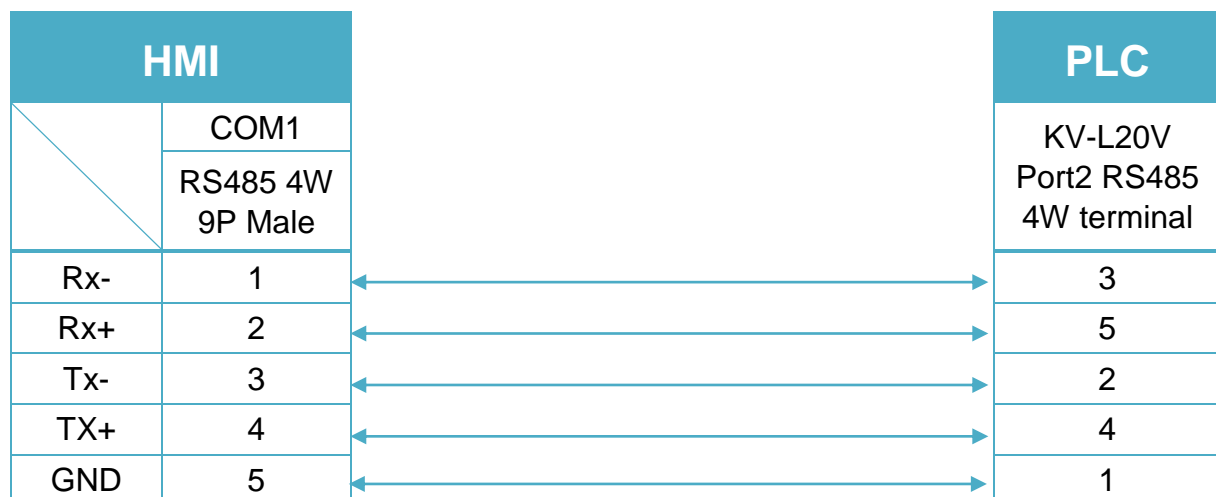
## Diagram 13

**cMT Series** *cMT3151*

**eMT Series** *eMT3070 / eMT3105 / eMT3120 / eMT3150*

**MT-iE** *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

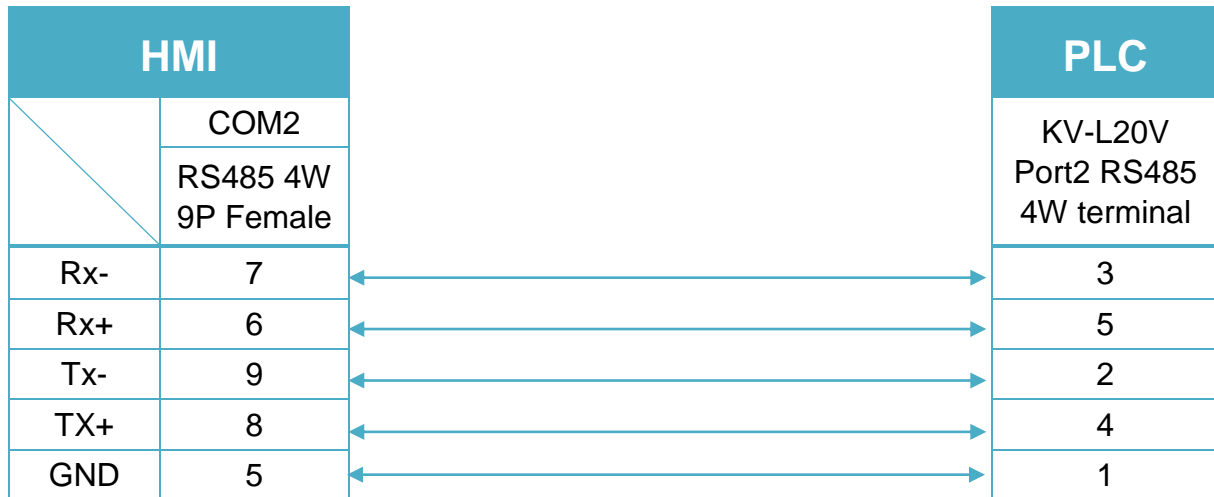
**MT-XE** *MT8121XE / MT8150XE*



## Diagram 14

**cMT Series**                      *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*

**mTV**                                *mTV*



## Diagram 15

**cMT Series**                      *cMT3071 / cMT3072 / cMT3090 / cMT3103*

**MT-iE**                                *MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE /  
MT8101iE / MT8102iE / MT8103iE*

**MT-XE**                                *MT8090XE / MT8092XE*

**MT-iP**                                *MT6071iP / MT8071iP / MT6103iP / MT8102iP*

