

KEYENCE

KV-L20V/700/1000/3000/5000/7500/Nano Series

Supported series: KV-L20V, 700, 1000, 3000, 5000, 7500 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/Nano		
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	RLY	DDDdd	0 ~ 99915	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
B	EM_Bit	DDDDDDdd	0 ~ 6553515	Data memory
B	FM_Bit	DDDDDDdd	0 ~ 6553515	File register bit

Bit/Word	Device type	Format	Range	Memo
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	DDDDD	0 ~ 65535	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	RLY_Word	DDD	0 ~ 999	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*

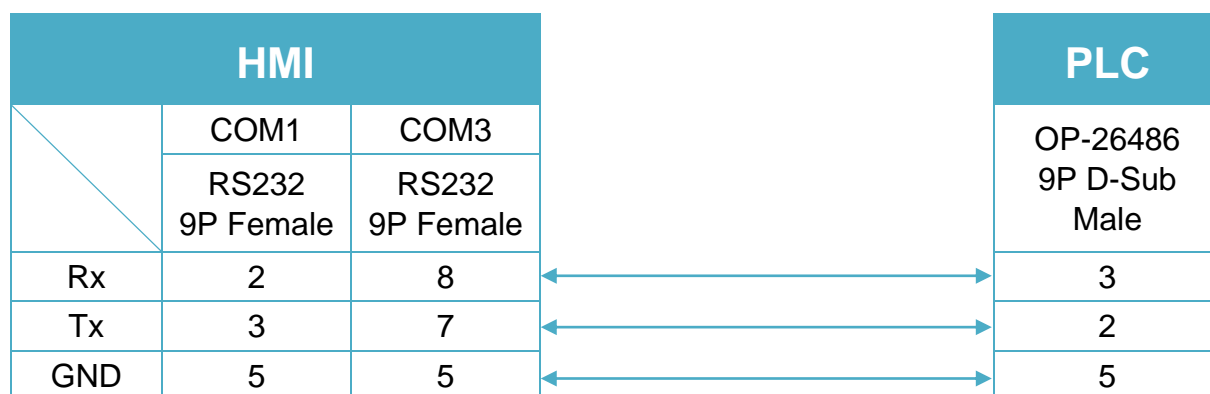


Diagram 2

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

mTV *mTV*

MT-iE *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE /
MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE /
MT8101iE / MT8102iE / MT8103iE*

MT-XE *MT8121XE / MT8150XE / MT8090XE*

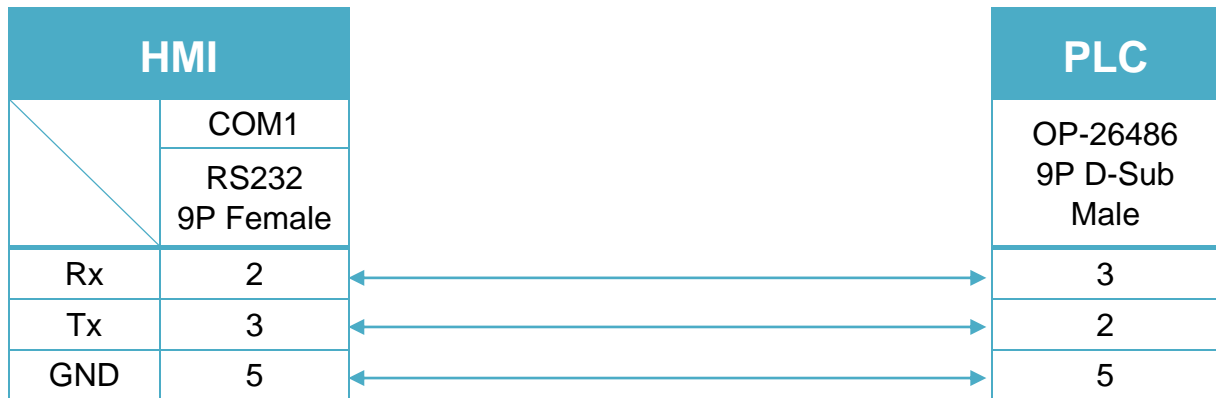


Diagram 3

MT-iE *MT8050iE / MT8053iE*

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



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

Diagram 4

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

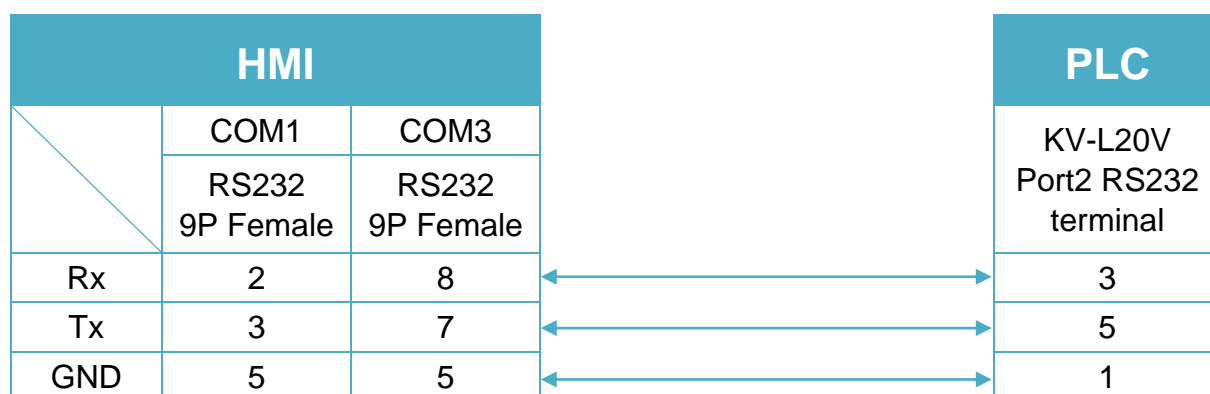


Diagram 5

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

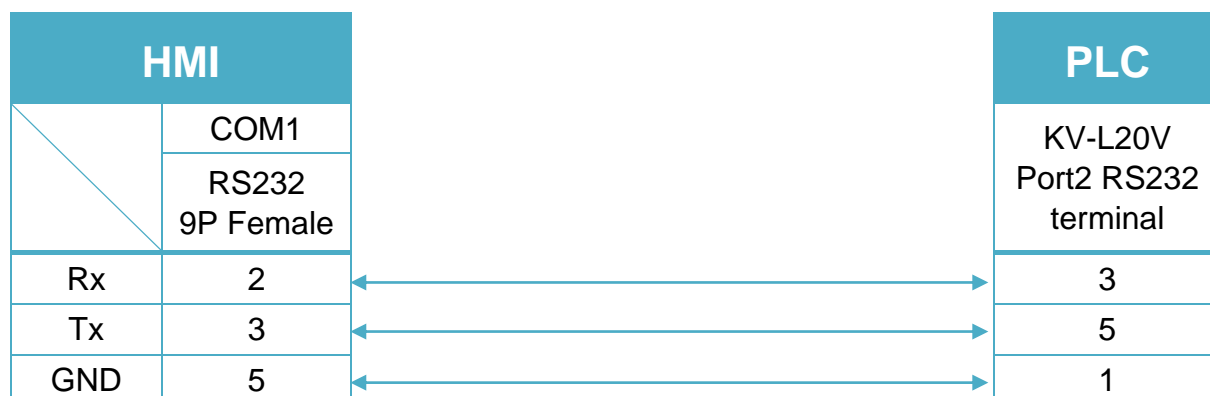


Diagram 6

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*

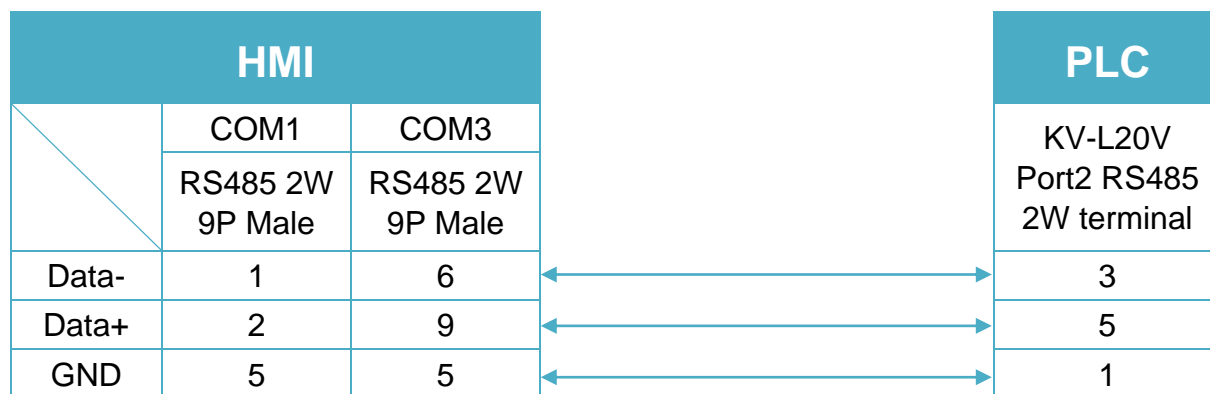


Diagram 8

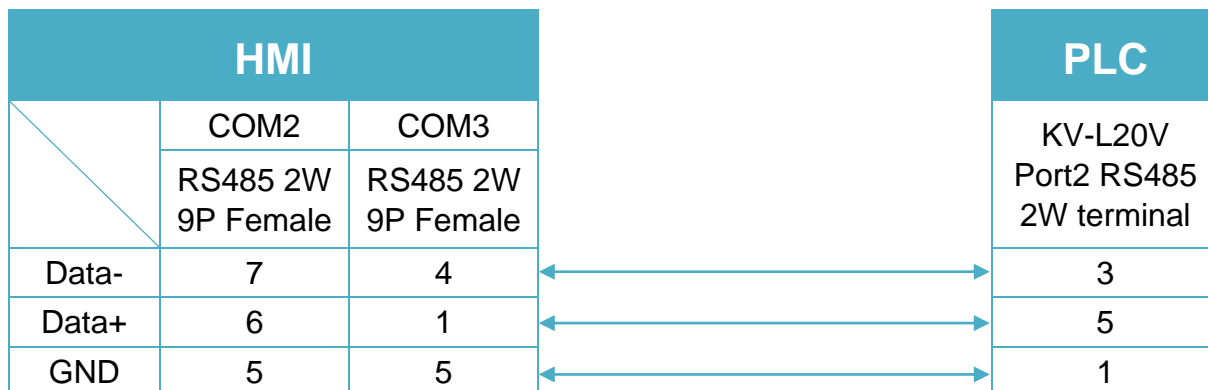
cMT Series
cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD
mTV
mTV


Diagram 9

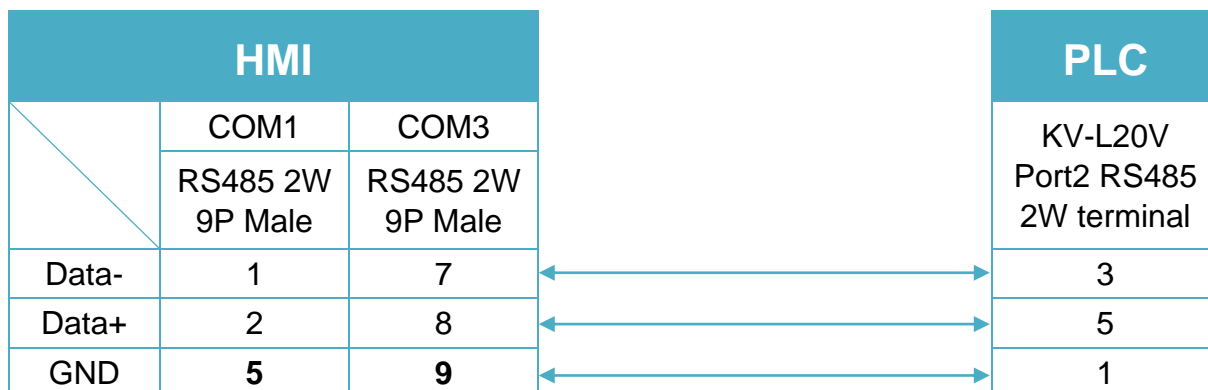
MT-iE
MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE
MT-XE
MT8121XE / MT8150XE


Diagram 10

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

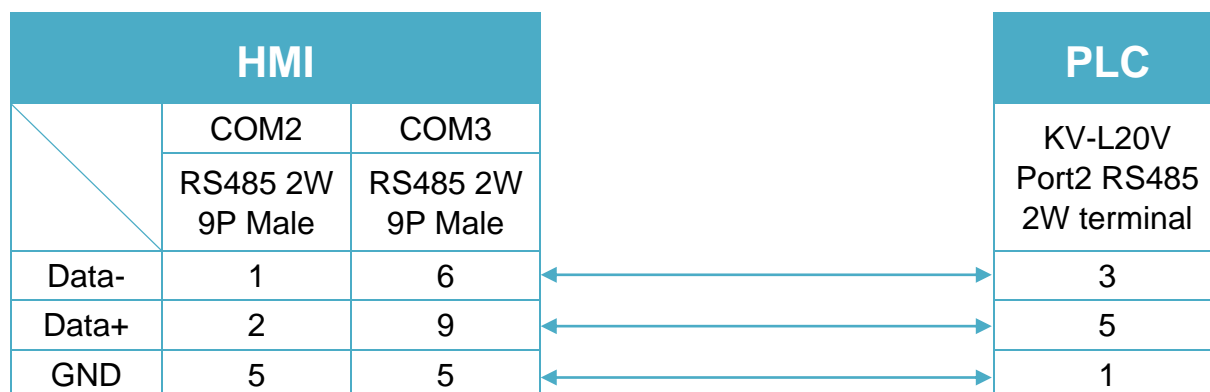


Diagram 11

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

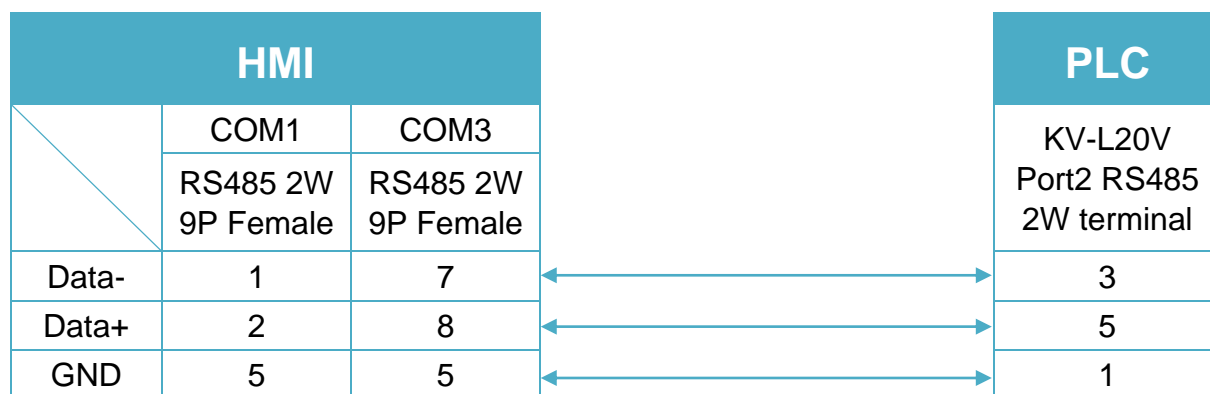


Diagram 12

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*

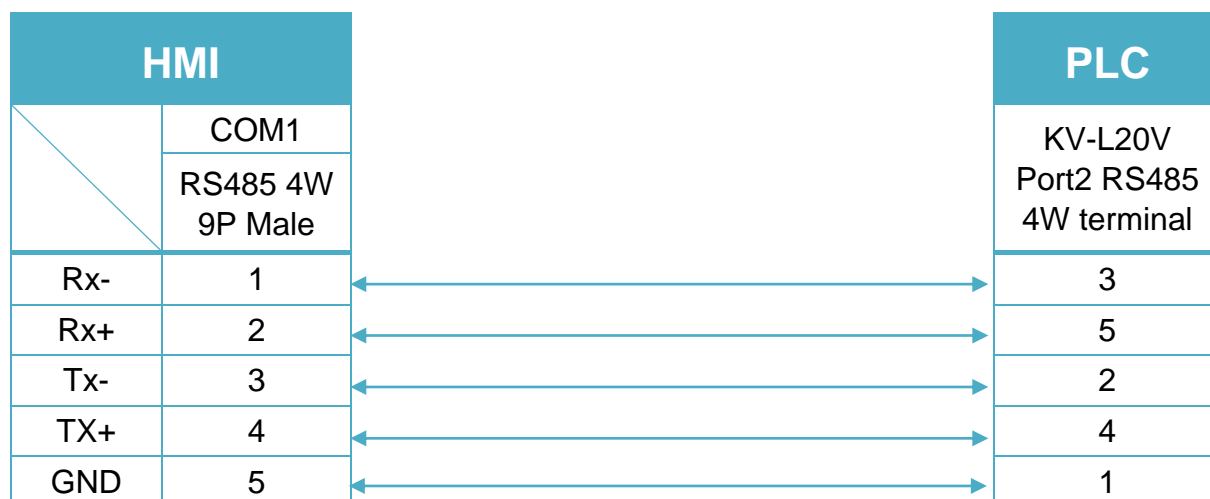


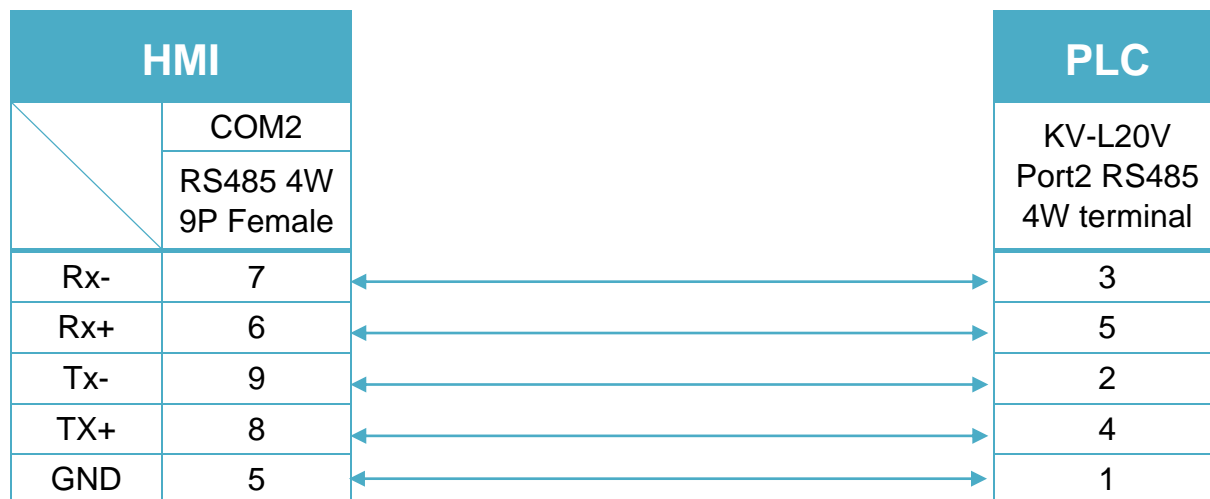
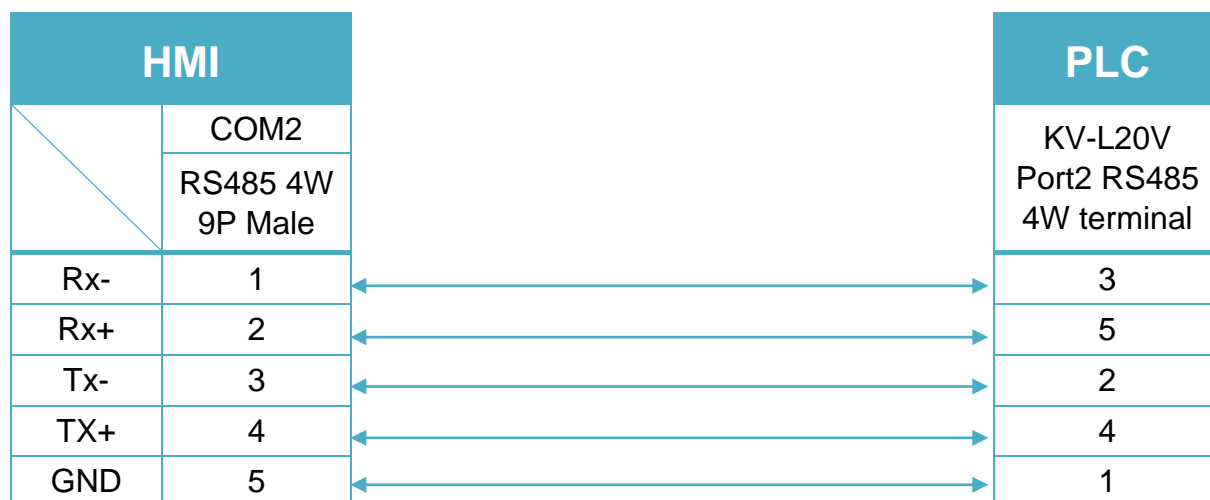
Diagram 14
cMT Series *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*
mTV *mTV*

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*


Diagram 16**MT-iE** *MT8050iE / MT8053iE***MT-iP** *MT6051iP / MT8051iP*