SMART SENSOR BUSINESS

> **Application Note Substitute** Model ECO Type ERrr-(1950-3000) & ETrr-(1950-3000) & ER Master – Slave systems



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- Replacing an ECO light curtain (ETxx-yyyy; ERxx-yyyy)
- > For all resolutions and protective field heights from 1950 mm to 3000
- For the most Master / Slave systems series ECO
- Replacement for standard ER / ET with length 1950 3000mm:

MLC500Txx-yyyy + MLC520Rxx-yyyy

- Replacement with changing of the wiring!!
- I!! Mostly it is necessary to change the safety relay at the cabinet !!!

Note: xx = resolution; yyy = protective field height







## Change of the safety relay

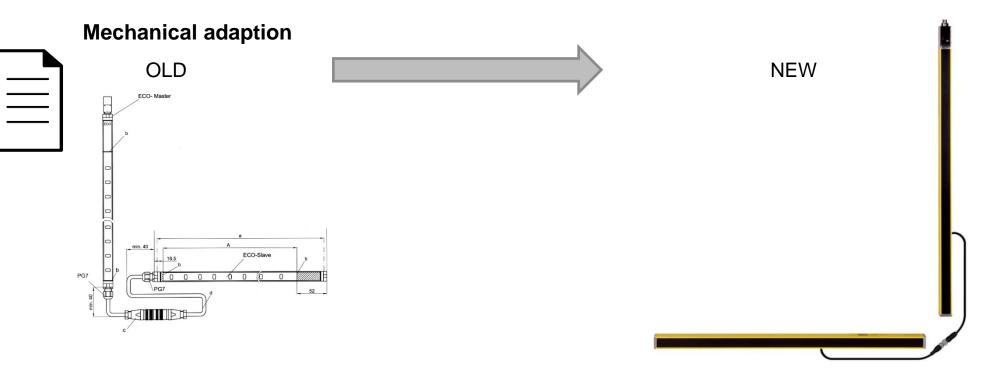
Installed safety relay	Replacement	hint
TNT 3x, all TNT without TNT3x + SMC3x	MSI-SR4B-01	RES connected to 0V;
MSI-TR*B-0x	MSI-SR4B-01	Res connected to 0V
MSI-m/R; MSI-s/R; MSI-i/R	Remain	Change wiring
MSI-mx*; MSI-sx*; MSI-ix*	Remain	Change wiring
TMC66, TNT3x + SMC3x	Application need to be clarified; contact support	Possible solution, e.g. MLC530Rxx-yyyy-SPG
Non Leuze safety relay	Application need to be clarified; contact support	
Safety PLC	Remain	Parameterization of PLC required
Others	Application need to be clarified; contact support	maybe no safety application

#### Note:

\* = place-maker, for example MSI-mx/Rx

xx = resolution; yyy = protective field height





#### Note:

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Since the MLC has a smaller usable alignment angle (one reason was a change in the standard 61496-2), an angular orientation of the MLC system is important. The following brackets are here recommended:

- BT-2SB10
- BT-2HF warum BT -2HF über 1200mm Schutzfeldhöhe bzw. Hintertrittschutz nicht verwendbar





# Substitute model ER & ET with MLC520

### **Electrical connection transmitter**

ECO	ECO Transmitter		Picture electrical connection – transmitter (new plug)						
	Wire color	Meaning	-			( I <b>0</b> /			
plug					MLC t	ransmitter wiring (MLC502*)			
1	white	+24V DC*)							
2	brown	PE				r			
3	green	0 V*)			Pin	Core color (CB-M12-xx000E-5GF)	Transmitter		
4	yellow	test input	-		1	Brown	VIN1 - supply voltage		
	-	(0 V = Test)			2	White	n.c.		
5	grey	free	l		3	Blue	VIN2 - supply voltage		
6	pink	free	-		4	Black	RNG - range		
7	blue	free	-		5	Gray	FE - functional earth, shi		
8	red	protective screen/PE	1		FE	ĺ	FE - functional earth, shi		



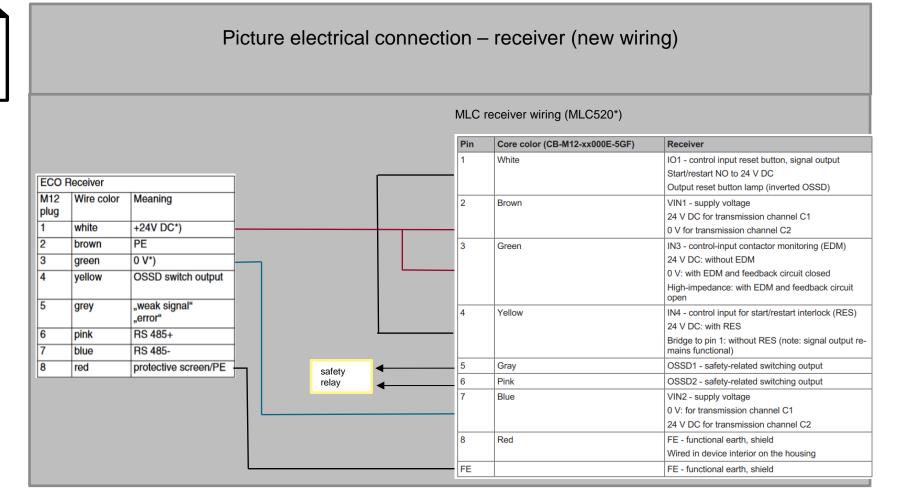
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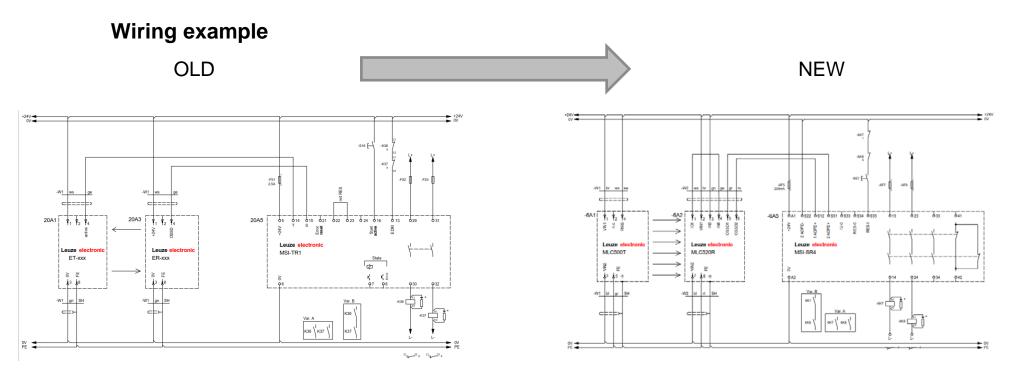
# Substitute model ER & ET with MLC520

### **Electrical connection receiver**





## Substitute model Eco to MLC



#### Note:

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Old products: ETxx-yyyy + ERxx-yyyy + MSI-TR1 (Pin compatible with TNT 35)

New products: MLC500Txx-yyyy + MLC520xx-yyyy + MSI-SR4B-01 + new cable or new M12 – 5 pin female plug for MLC500

## Attention

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### Note:

Please pay attention to the following points:

- Only Receiver MLC520 + Transmitter MLC500 together should be replaced
- no serial interface
- no weak signal
- bigger housing of MLC5xx
- different response time
- Different safety relay or different safety relay wiring / configuration

### Any questions!?



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