

# CP-mx01/AR



## COMPACTplus with Parametering „AREAL/M“

CP-mx01/AR from the COMPACTplus model series can be used plug-compatible in place of AREAL devices with integrated muting. Both, parallel and sequential muting, muting restart for relieving after errors and monitored muting lamps are supported. The following four device pairs are available:

- 4- beam transmitter CPT300/4/AR with receiver CPR300/4-mx01/AR
- 3- beam transmitter CPT400/3/AR with receiver CPR400/3-mx01/AR
- 2- beam transmitter CPT500/2/AR with receiver CPR500/2-mx01/AR
- 2- beam active/passive transceiver CPRT500/2-mx01/AR with deflecting mirror CPM500/2V

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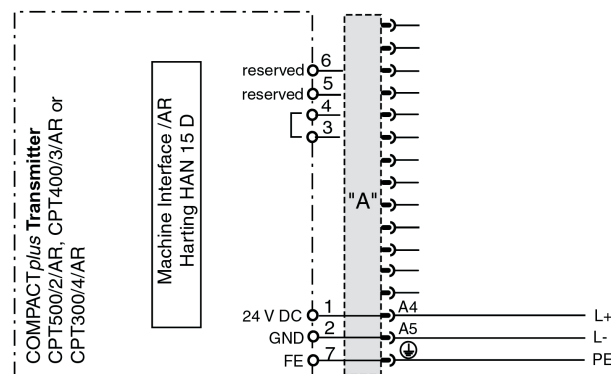
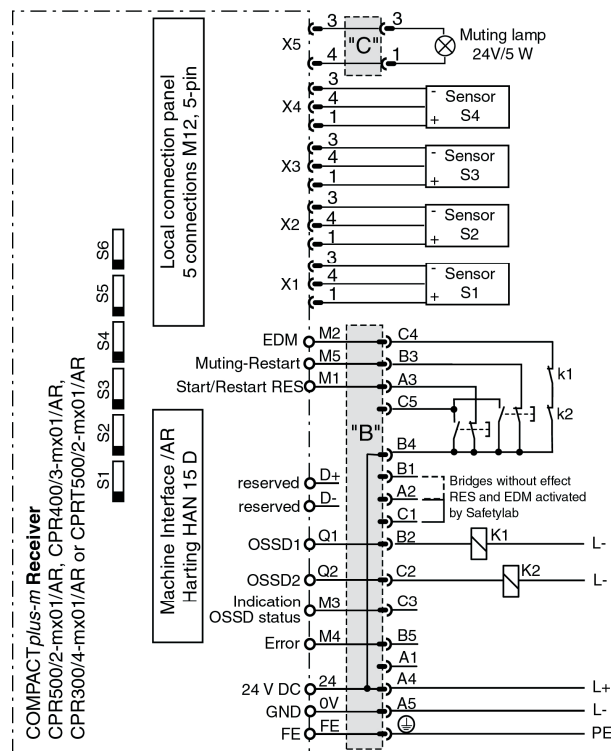
## Features

- Plug compatible with AREAL with factory-side connected Harting plug
- Automatic distinction between sequential and parallel muting preset
- Muting restart (relieving) with activating the switch twice
- No support of testable muting sensors
- Multi-scanning of the protective field for increasing the immunity to perturbations
- Increased filter times for the signals of the muting sensors

In addition to the options with AREAL, also available in the CP-mx01/AR are:

- Available active/passive as transceiver with deflecting mirror
- Diagnostics and extended parametering optional with the PC software, SafetyLab
- Restart interlock and contactor monitoring can be selected separately
- Freely definable status signal outputs
- Additional signals for releasing muting and controlling muting time limit

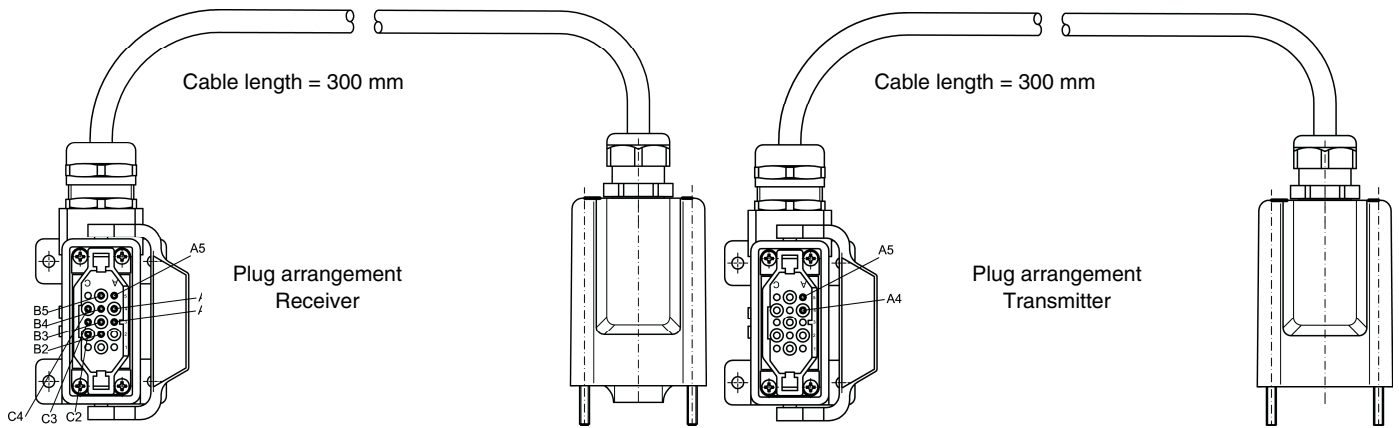
## Wiring



"A" = Connecting cable, L = 300 mm, Harting plug/connection cap CPT  
 "B" = Connection cable, L = 300 mm, Harting plug/connection cap CPR or CPRT  
 "C" = Connection cable, L = 1500 mm, M12, polarity change Pin1 and Pin 4

604123 - 2009/01 Subject to change without prior notice

**Connectors**



**Information**

COMPACTplus-mx01/AR Multiple Light Beam Safety Devices, equipped with 15-pin Harting plugs and SafetyLab Software are as far as possible adapted to the parameters of AREAL-M.

The parameterisation -mx01/AR for the replacement of AREAL-M considers the following parameters, where necessary deviating from the COMPACTplus-m factory settings:

	Factory settings CP-mx/T1	Parameters selected t CP-mx01/AR
Concurrency Parallel Muting	2,5 s	0,7 s
Response time	20 ms (H7 or H8)	7 ms (H2)
Input signal "Start/Restart"	not inverted at M1	inverted at M1
Input signal "contactor monitoring, EDM"	not inverted at M2	not inverted at M2
Input signal "Muting Restart"	not inverted at M5	inverted at M5
Output signal „Error“	inverted at M4	not inverted at M4
Output signal „OSSD-Status“	not inverted at M3	inverted at M3

**Differences in the function:**

	AREAL-M, V2.6	CP-mx01/AR
Start/Restart Button	start by pressing	start by pressing and releasing again within a time window of 0,5 to 4 s
Muting Restart keyed button	Muting Restart by switching	Muting Restart at the second switching within a time window of 4 s
Selecting start/restart interlock and contactor monitoring (EDM)	combined selectable by use of a bridge	at -mx01/AR both are selected, using SafetyLab (option) both can be selected separately
Muting Sensor Test	at version V2.6 not necessary	not necessary and not available
Signal „Error“	at start up shortly on, than off if there is no error occurrence	off if there is no error occurrence
Error indication	blinking code	7-segment display, PC-Diagnostics

**Ordering information**

Replacement AREAL-M:  
COMPACTplus-mx01/AR Multiple Light Beam Safety Devices

up to now		replaced by:			
Transmitter	Receiver	Transmitter	Art.-No.	Receiver	Art.-No.
AT-500/2	AMR-500/2	CPT500/2/AR	68900051	CPR500/2-mx01/AR	68900052
		or CPM500/2V*)	909606	CPRT500-mx01/AR**)	68900053
AT-400/3	AMR-400/3	CPT400/3/AR	68900054	CPR400/3-mx01/AR	68900055
AT-300/4	AMR-300/4	CPT300/4/AR	68900060	CPR300/4-mx01/AR	68900061
		+ Connection cable CB-M12-1500X-2GF/WM, L = 1500 mm, Muting-Lampe M12, polarity change pin1 and pin 2, included			429066
		+ Option: SafetyLab Software SLAB-SWC for deviate parameter settings			520073

\*) Passive Mirror, Range 6,5 m

\*\*) Transceiver, Transmitter and Receiver  
in one housing