



2.1

SERIE TX



Rectangular photoelectric sensors - AC/DC

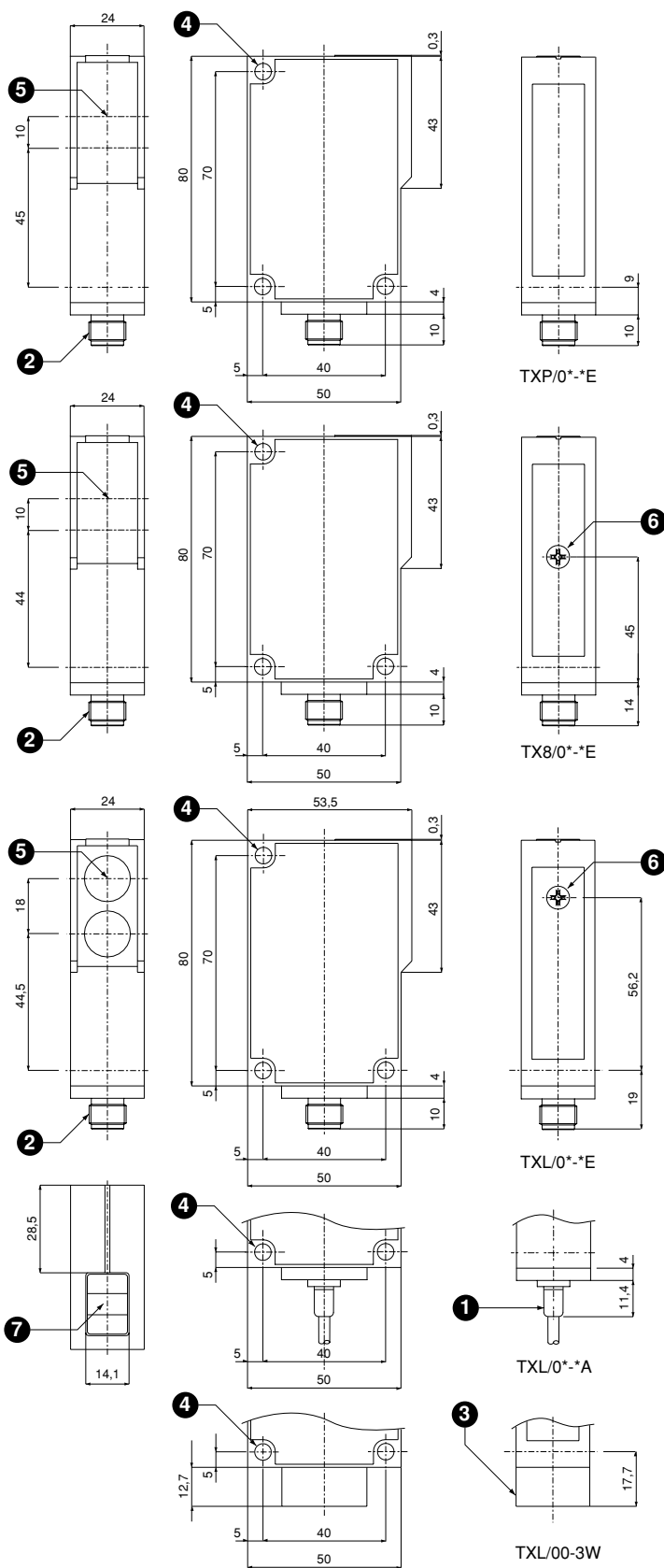
- ◆ Red-light emitter LED as alignment aid
- ◆ Polarization filter to allow detection of objects with reflective surfaces (TXP models)
- ◆ Energetic photoelectric sensors with max. sensing distance 2m (TX8 models)
- ◆ Background suppression (TXL)
- ◆ Scanning distance adjustable (TXL models)
- ◆ Advance failure warning and alignment aid by means of flashing LED signal strength indicator
- ◆ No false triggering at power-up
- ◆ Insensitive to ambient light sources (HF lamps, hazard flash lamps)
- ◆ Reliable functioning even when devices installed opposite each other
- ◆ M12 and 7 pins connector cable exit
- ◆ Complete protection against electrical damage

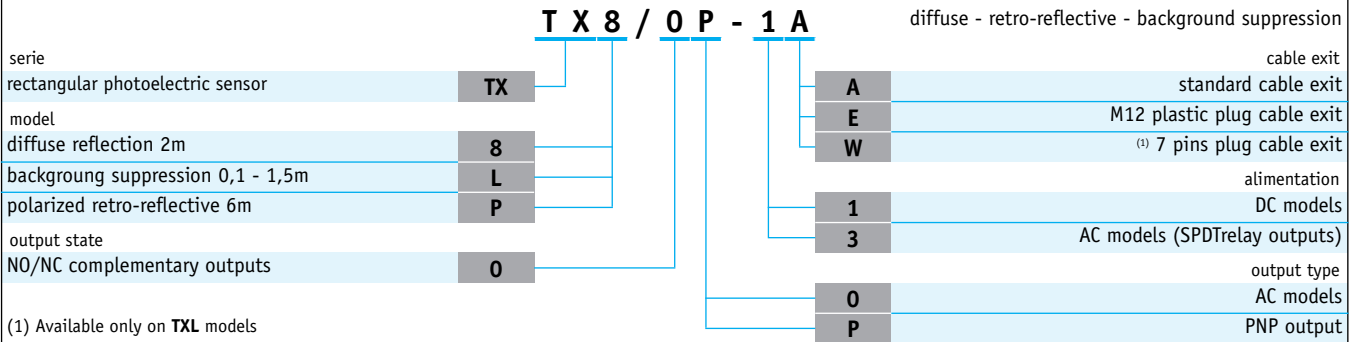


Key	
1	Standard cable exit
2	M12 plug cable exit
3	7 pins plug cable exit
4	Mounting holes
5	Center optical axis
6	Sensitivity control trimmer
7	Green LED (output state)

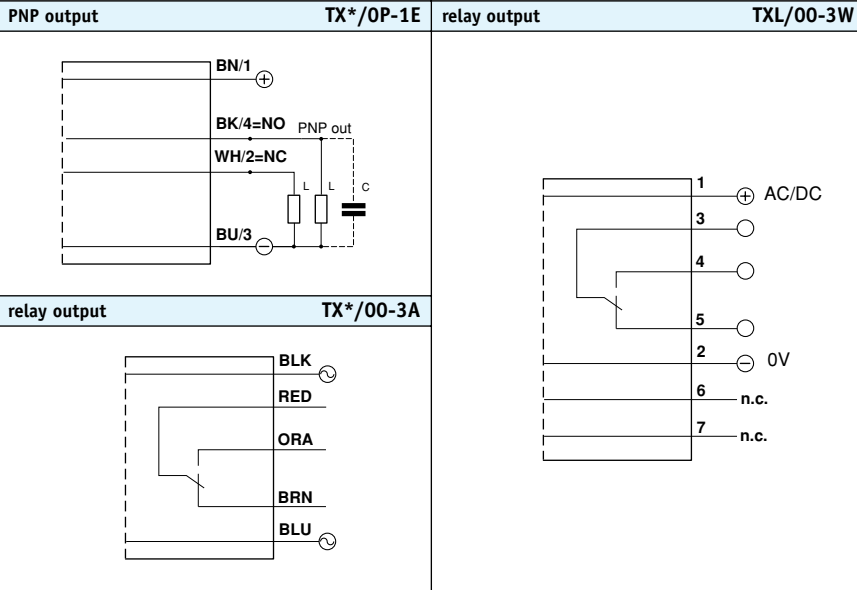
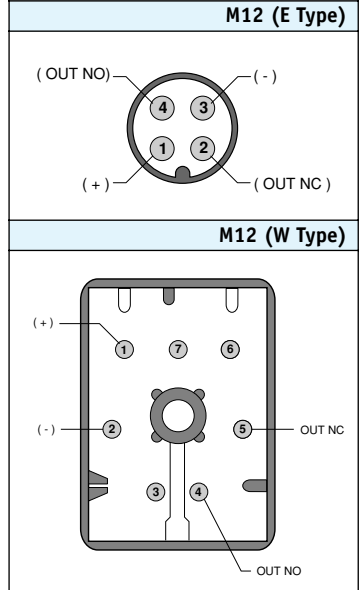
Connectors **CD** or **CS** serie
Accessories **ST** serie

DIMENSIONAL DRAWING



ORDERING SYSTEM

SPECIFICATIONS

Model	TX8/OP-1E	TX8/OO-3A	TXL/OP-1E	TXL/OO-3W	TXP/OP-1E	TXP/OO-3A
Type	diffuse reflection		background suppression		polarized retro-reflective	
	DC	AC	DC	AC/DC	DC	AC
Nominal sensing distance (Sn)	0,3 - 2m		0,1 - 1,5m		6m	
Emission	infrared (880nm)		infrared (880nm)		red (660nm)	
Operating voltage	12 - 28,8 Vdc	90 - 265 Vac	10 - 30 Vdc	20 - 265 Vac/dc	12 - 28,8 Vdc	90 - 265 Vac
Ripple	≤5Vpp	-	≤5Vpp	-	≤5Vpp	-
No-load supply current	25mA	2,5VA	25mA	2,5VA	25mA	2,5VA
Load current	100mA	120W/600VA	100mA	120W/600VA	100mA	120W/600VA
Leakage current	≤10mA	-	≤10mA	-	≤10mA	-
Voltage drop	2,9V	-	2,9V	-	2,9V	-
Output type	PNP, NO/NC complementary	relay SPDT	PNP, NO/NC complementary	relay SPDT	PNP, NO/NC complementary	relay SPDT
Switching frequency	200Hz	10Hz	250Hz	10Hz	200Hz	10Hz
Time delay before availability	200ms					
Test input	-		Light ON: input to Vcc (or not conn.) Light OFF: input to 0V		-	
Supply electrical protections	polarity reversal, transient					
Output electrical protections	short circuit	-	short circuit	-	short circuit	-
Temperature range	-25°....+60°C		-40°....+60°C		-25°....+60°C	
Temperature drift	≤10%					
Interference to external light	10000lux (incandescent lamp)					
Protection degree (DIN 40 050)	IEC IP65		IEC IP67		IEC IP65	
LED indicators	green (NO output energized)					
Housing material	plastic (glass fibre reinforced)					
Lenses material	PMMA					
Weight (approx.)	70g		80g		70g	


WIRING DIAGRAMS

CONNECTORS


2.1

CHARACTERISTIC CURVES
