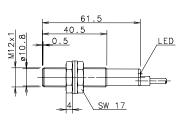
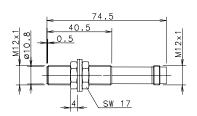
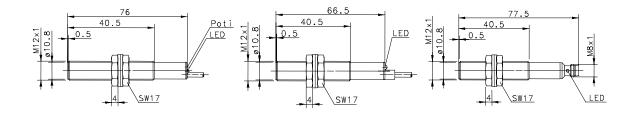
Series M12

Overview of Diffuse reflective sensors

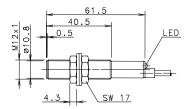


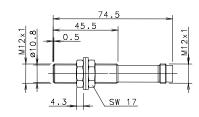


Brass enclosure			
	Cable	Cable M12 plug-in connection	
Sensing range	60	60mm	
Light activation	6557928002	6557927001	
Dark activation	6557728001		



	Brass enclosure		
	Cable M8 plug-in connection		M8 plug-in connection
Sensing range	200mm adjustable (Potentiometer)	200	Dmm
Light activation	6557928003	6557928004	6557927004
Dark activation			





Plastic enclosure				
	Cable		M12 plug-in	connection
Sensing range	200mm	60mm	200mm	60mm
Light activation	6557930001	6557930002	6557929001	6557929002
Dark activation				

RT = Diffuse reflective sensor

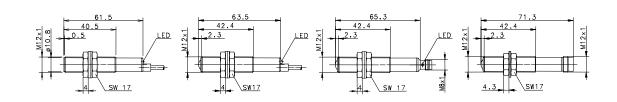
This document will not become the contractual basis; the details included herein do not constitute any descriptions of expected conditions, so that warranties/claims for defects on account of possible variations of the actual qualities from the qualities described herein are explicitly excluded. All rights reserved. Specifications subject to change without notice!

Date of issue : 15.12.2006 / Page 1 of 4 Document : 7100021_en.doc / Last update: 2 / 0836-06





Overview of Through-beam sensors



Brass enclosure			Plastic enclosure			
		Cable		M8 plug-in connection	M12 plug-in connection	
		PA12 Front cap		PA12 Lens		
Sensir	ng range	1m	6m			
SE		6551028002	6551028001 6551027002 6551029001* ⁾		6551029001* ⁾	
EE	NPN		6551129001			
EE	PNP	6551728002	6551728001 6551727002 6551729001		6551729001	

SE = Through beam, transmitter only

EE = Through beam receiver only (dark activated)

Switching functions and wiring diagrams

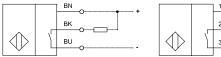
The description refers to:

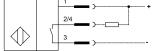
Sensors	Sensing types
Diffuse reflective sensor	RT
Through beam, receiver only	EE

Mounting conditions

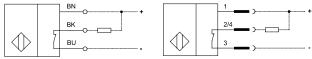
without an object inside the sensing range with mounted emitter but without an object inside the sensing range

NPN - light activation



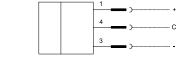


NPN - dark activation

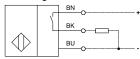


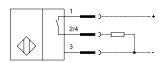
Through beam, transmitter only

BN 0+
вкС
BU

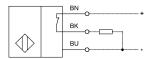


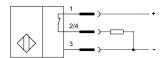
PNP - light activation





PNP - dark activation





C = Control-Input. The emitter will be turned off when "Control" and "-" get connected (system test). *) Without Control-Input

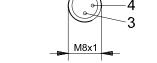
This document will not become the contractual basis; the details included herein do not constitute any descriptions of expected conditions, so that warranties/claims for defects on account of possible variations of the actual qualities from the qualities described herein are explicitly excluded. All rights reserved. Specifications subject to change without notice!

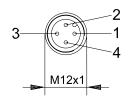
> Date of issue : 15.12.2006 / Page 2 of 4 Document : 7100021_en.doc / Last update: 2 / 0836-06



M8x1, M12x1 connectors and corresponding colours

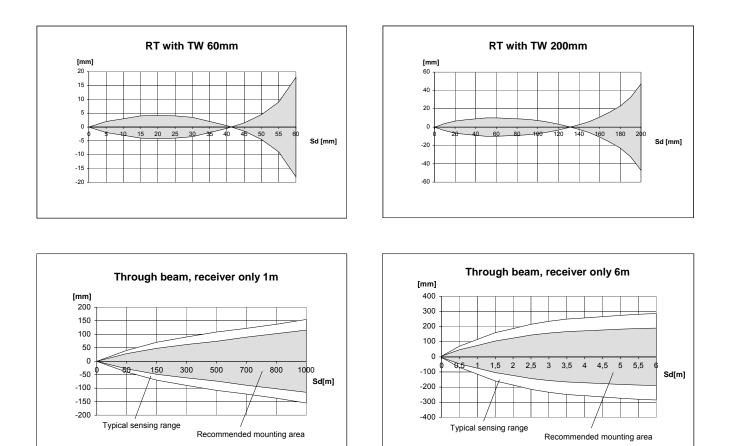
Pin number	Colour	Code
1	brown	BN
2/4	black	BK
3	blue	BU





M12x1 connectors: Pin 2 = dark activation; Pin 4 = light activation

Typical sensing range



This document will not become the contractual basis; the details included herein do not constitute any descriptions of expected conditions, so that warranties/claims for defects on account of possible variations of the actual qualities from the qualities described herein are explicitly excluded. All rights reserved. Specifications subject to change without notice!

Date of issue : 15.12.2006 / Page 3 of 4 Document : 7100021_en.doc / Last update: 2 / 0836-06



Identifying characteristics in accordance with EN 60947-5-2

Electrical data

dication: LED yellow

Electromagnetic compatibility (EMC)		
Electromagnetic field test	IEC 61000-4-3	3V/m
Electrostatic discharge test	IEC 61000-4-2	4kV (metallic enclosure) 8kV (plastic enclosure)
Electrical fast transient immunity test (Burst)	IEC 61000-4-4	2kV
Impulse voltage withstand ability (Surge)	IEC 61000-4-5	500V, 1,2/50μs @ Ri = 42Ω
Radiated disturbance field strength	EN 55011	≤ 40dB (μV/m)

Mechanical Data	
Enclosure	M12x1 brass, nickel plated M12x1 PA6 red
Beam-output	PA12 PA12 lens @ through beam 6m
End cap	PA6.6 black
Ambient air temperature	-20°C+70°C
Type of protection	Cable versions: IP67 / with potentiometer IP65 Connector versions: M8x1 with plug-in-connector IP65 Connector versions: M8x1 / M12x1 with screwed plug-in-connector IP67
Pollution degree	3 (Pollution of the optic can cause impairments of the operating distances.)
Indication	Output LED yellow Transmitter LED green
Termination type	Cable 3x0,14mm ² x 2m, PVC-outer jacket, black Plug socket M8x1, brass, nickel plated
	Plug socket M12x1, PA
For attachment	Hexagon nut; brass, nickel plated (with toothed washers A2) Hexagon nut; PA 6.6, black (with washers PEBUNAN)

EU Conformity

CE

This document will not become the contractual basis; the details included herein do not constitute any descriptions of expected conditions, so that warranties/claims for defects on account of possible variations of the actual qualities from the qualities described herein are explicitly excluded. All rights reserved. Specifications subject to change without notice!

Date of issue : 15.12.2006 / Page 4 of 4 Document : 7100021_en.doc / Last update: 2 / 0836-06